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**1910-1911**

**Pennsylvania College for Women**

**Pittsburgh**





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**Pittsburgh**





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# 1910

September							October							November							December						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24
25	26	27	28	29	30	...	23	24	25	26	27	28	29	27	28	29	30	...	...	...	25	26	27	28	29	30	31
...	...	...	...	...	...	...	30	31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

# 1911

January							February							March							April						
1	2	3	4	5	6	7	...	...	...	1	2	3	4	...	...	...	1	2	3	4	...	...	...	...	...	...	1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30	31	...	...	...	...	26	27	28	...	...	...	...	26	27	28	29	30	31	...	23	24	25	26	27	28	29
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May							June							July							August						
...	1	2	3	4	5	6	...	...	...	...	1	2	3	...	...	...	...	...	1	...	...	1	2	3	4	5	
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
28	29	30	31	...	...	...	25	26	27	28	29	30	...	23	24	25	26	27	28	29	27	28	29	30	31	...	...
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September							October							November							December						
...	...	...	...	...	1	2	1	2	3	4	5	6	7	...	...	...	1	2	3	4	...	...	...	...	...	1	2
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
24	25	26	27	28	29	30	29	30	31	...	...	...	...	26	27	28	29	30	...	...	24	25	26	27	28	29	30
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31	...	...	...	...	...	...

# 1912

January							February							March							April						
...	1	2	3	4	5	6	...	...	...	...	1	2	3	...	...	...	...	...	1	2	...	...	1	2	3	4	5
7	8	9	10	11	12	13	4	5	6	7	8	9	10	3	4	5	6	7	8	9	6	7	8	9	10	11	12
14	15	16	17	18	19	20	11	12	13	14	15	16	17	10	11	12	13	14	15	16	13	14	15	16	17	18	19
21	22	23	24	25	26	27	18	19	20	21	22	23	24	17	18	19	20	21	22	23	20	21	22	23	24	25	26
28	29	30	31	...	...	...	25	26	27	28	29	...	...	24	25	26	27	28	29	30	27	28	29	30	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	31	...	...	...	...	...	...	...	...	...	...	...	...	...

May							June							July							August						
...	...	...	1	2	3	4	...	...	...	...	...	...	1	...	1	2	3	4	5	6	...	...	...	...	1	2	3
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24
26	27	28	29	30	31	...	23	24	25	26	27	28	29	28	29	30	31	...	...	...	25	26	27	28	29	30	31
...	...	...	...	...	...	...	30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

## CALENDAR

### 1910

- 20 September, Tuesday . . . . . Entrance Examinations
- 20 September, Tuesday . . . . . First Semester begins—enrollment
- 21 September, Wednesday . . . . . Recitations begin
- 24 November, Thursday . . . . . Thanksgiving Day
- 16 December, Friday . . . . . Christmas Vacation begins

### 1911

- 2 January, Monday 6 P.M. . . . . College opens
- 23 January, Monday . . . . . Mid-year Examinations begin
- 30 January, Monday . . . . . Second Semester begins
- 9 February, Thursday . . . . . Day of Prayer for Colleges
- 31 March, Friday . . . . . Spring Vacation begins
- 10 April, Monday, 6 P.M. . . . . College opens
- 20 May, Saturday . . . . . May Day Fête
- 5 June, Monday . . . . . Final Examinations begin
- 9 June, Friday, 3 P.M. . . . . Alumnae Meeting
- 10 June, Saturday, 2:30 P.M. . . . . Class Day
- 11 June, Sunday, 11 A.M. . . . . Baccalaureate Sermon  
Third Presbyterian Church
- 12 June, Monday, 8 P.M. Commencement and President's Reception  
The College
- 19 September, Tuesday . . . . . Entrance Examinations
- 19 September, Tuesday . . . . . First Semester begins—enrollment
- 20 September, Wednesday . . . . . Recitations begin
- 30 November, Thursday . . . . . Thanksgiving Day
- 15 December, Friday . . . . . Christmas Vacation begins

### 1912

- 1 January, Monday, 6 P.M. . . . . College opens
- 22 January, Monday . . . . . Mid-year Examinations begin
- 29 January, Monday . . . . . Second Semester begins
- 29 March, Friday . . . . . Spring Vacation begins
- 7 April, Monday, 6 P.M. . . . . College Opens
- 18 May, Saturday . . . . . May Day Fête
- 10 June, Monday, 8 P.M. . . . . Commencement  
The College



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### Term Expires in 1911

REV. WILLIAM L. McEWAN, D.D.	LAWRENCE DILWORTH
WILLIAM H. REA	LEE S. SMITH
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### Term Expires in 1912

HON. JACOB J. MILLER	WILLIAM N. FREW
JOHN B. FINLEY	JAMES C. GRAY
MRS. WILLIAM S. MILLER	

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Expression

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Piano, Organ and Theory



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Voice

MAUDE CALVERT KATHAN

Physical Training

ALICE DACRE BUTTERFIELD, M.A.

Chemistry and Biology

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Latin Language and Literature

Greek Language and Literature

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Instructor in English

JEAN W. FISHER

Assistant in Piano

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Librarian

MARGARET A. STUART

Secretary to the President

MRS. SARAH L. DRAIS

House Mistress

BESS LA VERNE STONER

Assistant to the Secretary

NANCY E. McFARLAND

House Mistress of Woodland Hall.



## HISTORICAL STATEMENT

PENNSYLVANIA COLLEGE FOR WOMEN was founded to supply the need in Western Pennsylvania of an institution of higher learning, organized and maintained under distinctively Christian influences. The East End of Pittsburgh was chosen as the location best suited for such a centre of liberal education, and a campus of about eleven acres was secured upon a hill crest in immediate proximity to Fifth Avenue, and between the rapidly growing residence districts of East Liberty and Shadyside. The fine, old family residence already standing upon the property was remodeled and enlarged to meet the requirements of the new school, and at a later time received the name Berry Hall, in memory of its former owner. The founding of the College was made possible by the generous gifts and active coöperation of many interested friends; and its charter, granted in December, 1869, authorized the conferring of degrees such as are "usually granted and conferred in other colleges of the United States of America," to students who should complete the offered courses of instruction in the liberal arts and sciences. The first class to be graduated comprised six students, who received their degrees in 1873.

Dilworth Hall, the second of the college buildings in order of erection, was named for Mr. Joseph Dilworth, the largest contributor toward its cost and a staunch friend and supporter of the institution. This structure was completed and dedicated in 1888. The Gymnasium was built in 1892 and connected with a Music Hall in 1897. A new residence

hall has recently been constructed, and was opened as a College House in September, 1909.

### **ORGANIZATION AND AIMS**

The entrance requirements of Pennsylvania College for Women are those of the eastern colleges. Its courses of study follow closely the lines of modern collegiate instruction. It is the aim of the college authorities, as it was the intention of its founders, to furnish to students from the populous region in which it stands such advantages and facilities as are enjoyed in the best institutions of learning, opportunities for liberal culture, and the maintenance of high ideals.

### **LOCATION**

The College is situated in the East End of Pittsburgh, in the center of the choicest residence section of the city. The campus is a finely shaded tract of land embracing a hill top on which the buildings stand. The plot owned by the College is part of one many times as large, containing the homes of a few families of wealth. The entrance to this tract is by a private road, so that the College is practically located in a large, private park, thus securing abundance of space and air, wide view, and fine opportunities for outdoor games, combined with a delightful and wholesome seclusion not easy to command in a great city.

Not least among the benefits conferred upon the College by its position in the heart of Pittsburgh is its nearness to the Carnegie Institute. Here are found a splendid library, containing 250,000 volumes; a museum, rich in material for the study of zoölogy, paleontology and ethnography; an art gallery, which maintains a valuable permanent collection of paintings, and exhibits each year work of the best living artists in Europe and America; halls of architecture and sculpture, which make possible at home the acquirement of an intellectual training obtainable under ordinary circumstances only by means of extensive travel in foreign lands.

Any of the lines of electric cars running out Fifth Ave-



nue from the downtown district will carry passengers very near the campus entrances on Murray Hill Avenue and on Woodland Road; and cabs may be taken at the railway stations which will convey travelers to the College. Baggage entering the city by the Pennsylvania lines should be checked to the East Liberty Station.

## **BUILDINGS**

The main buildings of the College are so connected as to be practically one, no exposure to the weather being involved in passing from one to another. They are so disposed as to receive the sunshine on all sides in the course of the day; they are heated by steam and lighted with gas. Berry Hall is four stories in height. On its lower floors are found the library, drawing rooms, class rooms, and the offices of the President and the Dean; it also contains living rooms for faculty members and resident students. Music Hall has a spacious Gymnasium on the first floor, and on the second, music studios and practice rooms. Dilworth Hall is devoted to academic uses, supplying the Assembly Hall, lecture rooms and laboratories. Woodland Hall, the new residence house, built last year, is a four-story building, containing a large reception hall, parlors, dining and service rooms, an infirmary, and living accommodations for about sixty students. It is constructed after the most approved plans for college dormitories, and has proved itself a commodious and most attractive home.

## **LIBRARY**

The College Library, housed in Berry Hall, contains thirty-five hundred volumes. Students have access to its shelves from 8.15 A. M. to 9.30 P. M., daily. The collection is classified according to the Dewey system, and is provided with a card catalogue. A thorough reorganization has augmented the working value of the books already on the shelves; and the departmental collections are enlarged from time to time by gifts of Alumnæ and friends, or by appro-

priations of funds. A Library Endowment Fund was started during 1909 by Mrs. Agnes Pitcairn Decker, an Alumna of the College, as a memorial of Mrs. Florence I. Holmes Davis, of the Class of 1875; and as this fund increases, its interest will become available for the purchase of important books. The authorities of the Carnegie Library of Pittsburgh have courteously permitted the establishment at the College of a Loan Department for students, which permits the use upon an extensive scale of outside reading in connection with all branches of assigned work.

### READING ROOM

Adjacent to the Library is the well-lighted and attractive reading room, supplied with daily and weekly newspapers, the standard monthly magazines and some quarterly reviews.

### LABORATORIES

The Science Department is located on the third floor of Dilworth Hall and is provided with a lecture room and with chemical and biological laboratories, supplied with all modern apparatus necessary for the pursuit of the courses offered. The chemical laboratory is equipped with accurate chemical balances, boiling and freezing point apparatus and other facilities for careful quantitative work. Connected with the chemical laboratory is a stock room situated in the basement of Dilworth Hall, from which duty free apparatus is lent to the student for use in the laboratory. This apparatus remains the property of the College and may be returned at any time; but if broken or used up the student is required to replace it. While no attempt is made to maintain a museum, students have access to a very good collection of minerals, specimens of the rarer elements and their compounds, and representatives of the less readily prepared organic substances. Collections of mounted skeletons illustrating the comparative osteology of typical vertebrates of preserved and mounted zoölogical forms, and of charts and microscopical mounts supplement the laboratory equipment in Biology.

## **GYMNASIUM**

The Department of Physical Training, with a well-equipped Gymnasium, offers to students of the College opportunities for intelligent exercise and the æsthetic development of the body.

Gymnastic training is required of freshmen and sophomores. Advanced classes are elective, but students are strongly advised to continue their work in this department throughout their college course.

A physical examination is required of each student upon entrance and during the year at the discretion of the Director.

The regulation suit consists of black bloomers, white jumper and gymnasium shoes. This suit may be ordered through the Director at a cost of about seven dollars.

The College Athletic Association controls all athletics, which include tennis, field hockey, basket ball and swimming. Satisfactory arrangements for swimming have been made at the new Young Women's Christian Association building.

### **RESIDENT STUDENTS**

Juniors and Seniors, one hour of gymnasium exercise a week required.

Sophomores and Freshmen, one additional hour a week required.

One hour a day of outdoor exercise required of all resident students.

### **REQUIREMENTS OF ADMISSION**

Registration blanks are provided by the College for the use of applicants for admission and will be forwarded upon request. These blanks, properly filled and signed, should be in the hands of the college authorities by September 20th. A registration fee of five dollars will be charged for holding a room for a resident student. This will be credited on the first payment, or refunded if notification of withdrawal is sent before August 25th.

All applicants for admission must present satisfactory

testimonials of good moral character. Those who come from other colleges must bring certificates of honorable dismissal. Admission to the Freshman class may be gained either by examination or by presentation of certificate from an approved high school or academy. Each of these methods is outlined below.

### **ADMISSION ON EXAMINATION**

Applicants for admission may be examined either during the week preceding commencement, or at the opening of the college year.

### **ADMISSION ON CERTIFICATE**

Students from such high schools and academies as may be approved by the Faculty are admitted to the Freshman class without examination on the presentation of certificates showing that they have completed the requisite amount of preparatory study. Blank forms of such certificates will be furnished instructors on application to the President, with whom they are invited to correspond. Applicants for admission are requested to present their certificates, or send them by mail to the President during the week preceding Commencement, or as soon thereafter as practicable. When the requirements given below have not been met exactly, equivalents, stated in detail, must be offered. Students received on certificate are regarded as on probation during the first semester.

### **ADMISSION TO ADVANCED STANDING**

Applicants for advanced standing who come from other colleges must present satisfactory college certificates for all prescribed studies below the desired grade, and for enough of elective work to make up their full quota of hours. Students who do not come from other colleges, if they desire advanced credit must pass examinations in subjects offered as college work. Preparatory courses are not accepted as equivalent to collegiate work without examina-

tion. No student will be accepted to candidacy for the baccalaureate degree after the beginning of the senior year.

### **ADMISSION AS SPECIAL STUDENTS**

Students who have not satisfied the matriculation requirements may be admitted to special courses for which they are adequately prepared; they must, however, satisfy the college authorities as to their preparation and ability to carry the desired work. Students entering the College from preparatory or high schools can best meet this requirement by the presentation of certificates for antecedent courses, or by offering themselves for examination. The College welcomes as special students persons of mature age and earnest purpose, and will provide for their admission to suitable courses. Students must consult the Dean concerning courses of study and their work will be arranged by her in consultation with the heads of departments. Certificates will be given for completed work of this kind upon application. Credits for these courses cannot count toward a degree unless the student shall at some time subsequent to her entrance meet matriculation requirements and make up the necessary number of hours.

### **REQUIREMENTS FOR ADMISSION TO THE FRESHMAN CLASS**

#### **I. LANGUAGES (Other than English)**

**1. Latin.** (These requirements are based upon the recommendations of the American Philological Association.)

- a. I. LATIN GRAMMAR.* The inflections; the simpler rules for composition and derivation of words; syntax of cases and the verbs; structure of sentences in general, with particular regard to relative and conditional sentences, indirect discourse and the subjunctive; so much prosody as relates to accent, versification in general, and dactylic hexameter.



2. **LATIN COMPOSITION.** Translation into Latin of detached sentences and easy continuous prose based upon Cæsar and Cicero.
3. **TRANSLATION AT SIGHT.** Candidates will be examined in translation at sight of both prose and verse. The passages selected will be of no greater difficulty than those with which the student has become familiar in the required preparation.
- b. **CÆSAR.** Any four books of the *Gallic War*, preferably the first four.
- c. **CICERO.** Any seven orations from the following list, but preferably the first six mentioned, Manilian Law being accepted as the equivalent of two orations; the four orations against Cataline, Archias, Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the fourteenth Philippic.
- d. **VERGIL.** The first six books of the *Æneid*.

Any candidate is at liberty to offer in place of the above requirements the new requirements prescribed by the College Entrance Examination Board in 1910.

*If physics be offered, a three years' course in one of the following languages, and if physics be not offered, an additional course of at least one year in a second is required.*

## 2. French.

*Minimum Requirement* (third language).

- a. Essentials of French grammar. Thorough knowledge of the four conjugations, irregular verbs, elementary use of syntax and word order.
- b. The ability to translate at sight easy French into idiomatic English. This can be acquired by reading not less than two hundred pages of graduated texts, such as Halévy's *L'Abbé Constantin*, Lamartine's *Graziella*, Le Brête's *Mon oncle et mon curé*.

- c. Ability to translate at sight easy English into correct French. This can be acquired by the study of any good grammar and composition books, such as François Composition, first and second books. Careful drill in correct pronunciation, writing from dictation, memorizing selected prose and poetry.

At least one year, five recitations a week, should be spent on this requirement.

*Maximum Requirement* (second language).

- a. Thorough knowledge of grammar; word formation, syntax, word order. Thorough knowledge of irregular verbs.
- b. Ability to translate at sight ordinary modern and classical prose and poetry into good English. This may be acquired by reading in addition to the amount specified in the minimum requirement, at least five hundred pages of advanced French, such as George Sand's *La Mare au diable*, Dumas' *La Tulipe noire*, Victor Hugo's *La Chute* and *Les Travailleurs de la mer*, Daudet's *Lettres de mon moulin*, Madame de Sévigné's *Lettres*.
- c. Ability to translate ordinary English into French. This may be obtained by constant oral and written exercises and the use of Chardenal's Advanced French Prose Composition.
- d. Ability to follow recitation conducted in French, to answer questions asked in that language and give brief résumés in French of the contents of texts read. Frequent practice in writing from dictation and memorizing of poems such as La Fontaine's *Fables* and select prose passages are recommended.

Three years, five recitations a week, should be spent on this requirement.

### 3. German.

#### *Minimum Requirement* (third language).

- a. Essentials of German grammar. This includes the declension of nouns, adjectives and pronouns, conjugation of verbs, the use of prepositions and conjunctions, elementary rules of syntax and word order.
- b. Ability to translate at sight easy German into correct English. This may be acquired by the reading of not less than two hundred pages of graduated texts such as found in any good reader, or in such books as Grimm's *Märchen*, Heyse's *L'Arrabbiata*, Storm's *Immensee*, Von Hillern's *Höher als die Kirche*, Gerstäckers's *Germels-hausen*, Seidel's *Leberecht Hühnchen*.
- c. Ability to translate at sight easy English sentences into German. This result may be obtained by the study of any good grammar, translation of paraphrases of the text and the use of an easy composition book, such as Bernhardt's *Prose Composition*. Careful drill in pronunciation, intelligent reading of the German text, writing from dictation, memorizing of selected passages, and the use of simple German phrases in the classroom are recommended.

At least one year, five recitations a week, should be spent on this requirement.

#### *Maximum Requirement* (second language).

- a. Thorough knowledge of grammar, including accidence, word formation, syntax, word order, the uses of the modal auxiliaries, and of the subjunctive and infinitive moods.
- b. Ability to translate at sight ordinary modern and classical German prose or poetry into good Eng-

lish. This may be acquired by reading, in addition to the amount specified in the minimum requirement, at least five hundred pages of advanced German. Graduated texts may be selected from such works as Jensen's *Die braune Erica*; Hauff's *Das Kalte Herz*; Baumbach's *Der Schwiegersohn*; Riehl's *Burg Niedeck* and *Fluch der Schönheit*; Heine's *Die Harzreise*; supplemented by selected texts from the classical writers such as Schiller's *Wilhelm Tell*, *Jungfrau von Orleans* and *Balladen*; Goethe's *Hermann und Dorothea*, *Iphigenia* and *Dichtung und Wahrheit*; Lessing's *Minna von Barnhelm*; Freytag's *Aus dem Staat Freidrichs des Grossen*, and *Doktor Luther*.

- c. Ability to translate ordinary English into German. This result may be obtained by constant practice in oral and written reproductions, retranslation of paraphrases of texts and the use of a good text-book of German Composition such as Jagemann's or Harris's German Prose.
- d. Ability to follow a recitation conducted in German, to answer questions asked in that language and to give brief résumés in German of the contents of the texts read. Frequent practice in writing from dictation and the memorizing of selected passages are recommended.

Three years, five recitations a week, should be spent on this requirement.

**4. Greek.** (These requirements are based upon the recommendations of the American Philological Association.)

- a. I. GREEK GRAMMAR. The topics for the examination in Greek grammar are similar to those detailed under Latin grammar.

2. GREEK PROSE COMPOSITION, consisting principally of detached sentences to test the candidate's knowledge of grammatical construction.

The examination in grammar and in prose composition will be based on the first two books of Xenophon's *Anabasis*.

3. TRANSLATION AT SIGHT of passages selected from Xenophon and Homer.
  - b. XENOPHON. The first four books of the *Anabasis*.
  - c. HOMER. The first three books of the *Iliad* (omitting II, 494-end).

## II. ENGLISH

*The requirements in English are those recommended by the Conference on Uniform Entrance Requirements in English for Middle States and Maryland.*

NOTE: No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom or division into paragraphs.

a. READING. A certain number of books will be set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before her in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. The candidate is expected to read intelligently all the books prescribed. She is not expected to know them minutely, but to have fresh in mind their most important parts. *In every case knowledge of the book will be regarded as less important than the ability to write good English.* In preparation for



this part of the requirements, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

The books set for this part of the examination will be:

In 1910, 1911, 1912—Group 1 (two to be selected): Shakespeare's *As You Like It*, *Henry V*, *Julius Caesar*, *Merchant of Venice*, *Twelfth Night*.

Group 2 (one to be selected): Bacon's *Essays*; Bunyan's *The Pilgrim's Progress*, Part I; Addison's *Sir Roger de Coverley*; Franklin's *Autobiography*.

Group 3 (one to be selected): Chaucer's *Prologue*; Spenser's *Faerie Queene*, Book I (selections); Pope's *The Rape of the Lock*; Goldsmith's *The Deserted Village*; Palgrave's *Golden Treasury* (First Series), Books II and III, with especial attention to Dryden, Collins, Cowper and Burns.

Group 4 (two to be selected): Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe* and *Quentin Durward*; Hawthorne's *House of the Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens' *A Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group 5 (two to be selected: Irving's *Sketch Book* (selections); Lamb's *Essays of Elia*; De Quincy's *Joan of Arc* and *The English Mail Coach*; Carlyle's *Heroes and Hero Worship*; Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies*.

Group 6 (two to be selected): Coleridge's *The Ancient Mariner*; Scott's *The Lady of the Lake*; Byron's *Mazeppa* and *The Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), with especial attention to Wordsworth, Keats and Shelley; Macaulay's *Lays of Ancient Rome*; Lowell's *The Vision of Sir Launfal*; Arnold's *Sohrab and Rustum*; Longfellow's *The Courtship of Miles Standish*;

Tennyson's *The Princess*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Evelyn Hope*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *The Boy and the Angel*, *One Word More*, *Hervé Riel*, *Pheidippiads*.

b. STUDY AND PRACTICE. This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form and structure. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

The books set for this examination will be :

In 1910, 1911, 1912—Shakespeare's *Macbeth*, Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*, or Washington's *Farwell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

Attention is called to the following recommendations of the Conference on Uniform Entrance Requirements in English:

1. That English be studied throughout the elementary and secondary school courses, and, when possible, for at least three periods a week during the four years of the high school course.

2. That the prescribed books be regarded as a basis for such wider courses of English study as the schools may arrange for themselves.

3. That where careful instruction in idiomatic English translation is not given, supplementary work to secure equivalent training in diction and in sentence structure be offered throughout the high school course.

4. *That a certain amount of outside reading, chiefly of poetry, fiction, biography and history, be encouraged throughout the entire school course.*

5. That definite instruction be given in the choice of words, in the structure of sentences and of paragraphs, and in the simple forms of narration, description, exposition and argument. Such instruction should begin early in the high school course.

6. That systematic training in speaking and writing English be given throughout the entire school course. That, in the high school, subjects for composition be taken partly from the prescribed books and partly from the student's own thought and experience.

7 That each of the books prescribed for study be taught with reference to:

- a. The language, including the meaning of words and sentences, the important qualities of style, and the important allusions.
- b. The plan of the work, i. e., its structure and method.
- c. The place of the work in literary history, the circumstances of its production, and the life of its author.

8. That all details be studied, not as ends in themselves, but as means to a comprehension of the whole.

### III. MATHEMATICS

#### 1. Algebra.

- a. The four fundamental operations for rational algebraic expressions. Factoring, determination of highest common factor and lowest common multiple by factoring. Fractions, including complex fractions, ratio and proportion. Linear equations, both

numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative. Quadratic equations, both numerical and literal. Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations.

- b. Theory of Quadratics. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the  $n$ th term and the sum of the terms of arithmetical and geometrical progressions, with application.

It is assumed that pupils will be required throughout the course to solve numerous problems which involve putting questions into equations. Some of these problems should be chosen from mensuration, from physics, and from commercial life. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

## 2. Plane Geometry.

The usual theorems and constructions of good textbooks, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle. The solution of numerous, original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces.

**NOTE:** The work in preparatory algebra should consist of an elementary course given the first year and a more advanced course given not earlier than the third year, after demonstrational geometry. This can be best accomplished by reviewing courses the equivalents of (1a) and (2) above, and by completing the equivalent of (1b) during the year preceding entrance to college.

#### IV. SCIENCE

Physics, Carhart and Chute, *Elements of Physical Science*, or equivalent. Laboratory work consisting of at least forty experiments taken from the manual must be shown by notebook certified by the instructor to be the original work of the student. As noted above, one year of a third language may be substituted for Physics.

#### V. HISTORY

**1. Ancient History** with special reference to Greek and Roman History, but including also a short introductory study of the Ancient East and extending to 800 A. D.

**2. English History** with due reference to social development and the growth of political institutions.

Students must present such supplementary evidence of the character of their preparation as notebooks, maps, and digests of collateral reading.

#### DEGREES

The degree of Bachelor of Arts is given to students who have satisfactorily completed courses amounting in all to fifty-six hours of college work.

The degree of Master of Arts is conferred upon Bachelors who hold the degree of Arts from this college, or from some other college of equal standing, and who have satisfactorily completed one full year of graduate work under the direction of the Faculty. In exceptional cases the work may be done *in absentia*, an examination of the candidate being required as a test of fitness to receive the degree. A detailed statement of the conditions of graduate study may be found on page 30.

#### REGULATION OF STUDIES

The unit of time used in measuring the value of work is the year hour,—that is, one full hour of class work weekly during a college year.

The minimum requirement for a degree is fifty-six hours; for each year of the college course the requirement



is fourteen hours weekly. Two deviations from this rule are provided for in the scheme of work.

1. By special permission of the Faculty, the allotment for a year may be increased to sixteen hours for students capable of maintaining a uniformly high grade of scholarship, and anxious to prepare for advanced courses in a chosen department.

2. At the beginning of the Senior year, a student who has carried her earlier years of work with distinction may make application for a reduction of the number of required hours, in order that she may do intensive work in a department where she has already shown aptitude. With the consent of the Dean and the Head of the Department in which the special work is to be done, she may undertake a schedule of twelve hours.

The total requirement for the degree in Arts is made up as follows:

Latin . . . . .	}	six hours
or		
French . . . . .		
or		
German . . . . .	}	seven hours
or		
Greek . . . . .	}	three hours
English . . . . .		
Mathematics . . . . .		three hours
Science . . . . .		three hours
Philosophy . . . . .		four hours
History . . . . .		three hours
Biblical Literature . . . . .		four hours
Elective work . . . . .		twenty-six hours

Each hour of class work is supposed to require two hours of preparation.

### ELECTIVE WORK

In the Freshman year, Mathematics, Rhetoric, and Bible are prescribed studies, amounting to six hours of

work. Eight hours must be elected from a list of nine subjects under the departments of Language, Science, English, Music, History and Expression. In the Sophomore year five hours of work are to be elected; in the Junior year, five and one-half hours; in the Senior year eleven and one-half hours.

All elections are subject to the approval of the Faculty. Not more than six hours may be elected in a single department in any semester. The Faculty retains the option of forming a class in any elective course when fewer than six students apply for registration.

### **ATTENDANCE UPON CLASS EXERCISES**

The grade of work done by a student is necessarily affected by irregularity of attendance upon lectures or recitations. Special examinations may be required if the number of avoidable absences for any semester shall exceed the limits of moderation.

Opportunities are occasionally offered for attendance upon lectures given in the city which are connected in subject with courses offered by the College. Upon notification by the instructor concerned, students will be expected to attend such lectures, and may have them counted as part of the required work of the courses to which they are allied.

### **EXAMINATIONS**

General examinations are held in all subjects at mid-year and at the close of the college year. Partial examinations may be given at the discretion of the instructor. Examinations taken for the removal of conditions, or for the securing of credit for private work are scheduled for the opening days of a semester, but may be appointed for other times under special conditions.

Students failing to present themselves for examinations in course may secure private examinations by permission of the Dean and upon payment of a fee of two dollars. If several examinations are to be taken under one permit, a fee of three dollars shall cover the list.

## CONDITIONS

A student whose work in any course is unsatisfactory will be conditioned in this subject at the end of the semester. This condition must be removed by the doing of an assigned amount of supplementary work within time-limits set by the instructor, and if considered necessary, under the direction of a tutor. If the condition is not removed at the expiration of the time-limit, the work of the course will be considered a failure. Failure in a required course must be made good by the repetition of the course at the time when it is next regularly given.

Entrance conditions are ordinarily to be made good within the first year of college attendance. No student can retain her entrance classification if she continues to carry conditions exceeding five year hours.

## REPORTS

Reports of the scholarship of students are sent out at the end of a semester to parents or guardians. A student may learn her standing in classes by making application to the Dean at the end of a semester.

## GRADUATE WORK

Graduates of the Pennsylvania College for Women, or of other institutions in which the requirements for a baccalaureate degree are substantially equivalent, may enter upon work for the degree of Master of Arts.

Advanced courses appropriate for graduate study leading to the higher degrees are described in the outlines of courses of various departments. Some courses are open to both graduate and undergraduate students; graduates pursuing these courses must maintain a standard of work sufficiently high to satisfy the college authorities that they are entitled to receive graduate credit.

The amount of work required of a candidate for the degree of Master of Arts is equivalent to fourteen hour courses pursued during a period of residence not shorter

than one year. Candidates for this degree are required to pass examinations in one major and at least one minor subject, which have been determined upon not later than October 15th of the year in which the examinations will be taken. The major and one minor must be in separate departments, but the subjects should be so related as to indicate a definite acquisition in scholarship on the part of the student. A thesis on the major subject, due not later than May 1st, will be required to complete the work for the Master's degree.

A graduate of the Pennsylvania College for Women who has completed one full year of continuous graduate study in an American University of high standing may make application for the degree of Master of Arts and this degree may be granted upon condition that she comply with the following requirements:

1. She shall present the University Registrar's certificate of credit for graduate work completed, and a letter from the Chairman of her Examining Committee of the University certifying that her scholarship and amount of work successfully finished entitle her to the University examination for the Master's degree, and that he approves her application for such a degree from the Pennsylvania College for Women.

2. She shall submit a satisfactory thesis based upon her graduate study.

3. She shall present herself for examination for the Master's degree at the discretion of the Faculty.

Tuition and laboratory fees paid by graduate students are the same as those paid by undergraduates. The charge for a diploma is ten dollars.

# CURRICULUM SCHEDULE

Freshman Year	Sophomore Year	Junior Year	Senior Year
Mathematics Course I 3 hours	English Literature Course IV 2 hours	English Course VI 2 hours	Philosophy Course III 1½ hours
Rhetoric Course I 2 hours	Science or Modern Language 3 hours	Science or Modern Language 3 hours	Bible Course IV 1 hour
Bible Course I 1 hour	History Courses I and II 3 hours	Philosophy Courses I and II 2½ hours	Elective 11½ hours
8 hours to be chosen from the following list Greek 3 hours Latin 3 hours French 3 hours German 3 hours Science 3 hours English 2 hours Music 2 hours History 1 hour Expression 1 hour	Bible Course II 1 hour	Bible Course III 1 hour	
	Elective 5 hours	Elective 5½ hours	
14 hours	14 hours	14 hours	14 hours

## COURSES OF INSTRUCTION

### PHILOSOPHY

DR. LINDSAY, MR. MARTIN.

1. PSYCHOLOGY. A study of the laws and the phenomena of the mind.

Dr. Lindsay.

*Required of juniors. 3 hours, first semester.*

2. LOGIC. A study of the principles of inductive and deductive reasoning, and of the relation of logical theory to scientific and philosophic thought.

Mr. Martin

*Required of juniors. 2 hours, second semester.*

3. ETHICS. The history of ethical philosophy, and a study of the fundamental principles of morality.

Dr. Lindsay.

*Required of seniors. 3 hours, first semester.*

4. HISTORY OF PHILOSOPHY. An introductory outline of Greek philosophy, followed by lectures on the development of modern philosophy.

Dr. Lindsay.

*Elective, open to all who have taken the required work in Psychology, 2 hours, second semester.*

5. CHRISTIAN EVIDENCES. An outline of the grounds upon which the Christian system rests.

Dr. Lindsay.

*Elective, open to sophomores, juniors and seniors. 2 hours, first semester.*

### SOCIOLOGY AND PEDAGOGY

MISS COOLIDGE, MISS MELOY

- I. SOCIAL SERVICE.

- a. Theory and observation. Introduction to the history of philanthropy and the study of the causes of poverty—Warner's American Charities. Study of



the principles and methods of preventive and constructive agencies for social welfare. Assigned readings. Discussions. Weekly visits in and around Pittsburgh. Reports of visits.

*Elective, open to sophomores, juniors and seniors. 2 hours, through the year.*

- b. Theory and practice in vocational training. Methods of dealing with destitute, defective and delinquent classes. Detailed study of constructive work in chosen field.

Miss Meloy.

*Elective, open to those who have had Course a. 2 hours through the year.*

2. SOCIOLOGY. The history of social evolution and a study of the structure and activities of modern society.

Miss Meloy.

*Elective, open to juniors and seniors. 2 hours, first semester.*

3. CIVICS. A study of the functions of government—the legislative, executive and judicial branches of the national and state governments; problems of municipal government.

Miss Meloy.

*Elective, open to juniors and seniors. 2 hours second semester.*

4. ECONOMICS. An introduction to the leading principles of economics. Text-book. Collateral readings; lectures; essays.

Miss Meloy.

*Elective, open to seniors. 2 hours, through the year.*

5. EDUCATION.

- a. History of Education. The development of educational ideals, material and methods, with special attention to the study of the great educational reformers.

- b. Contemporary Educational Principles and Problems. Class reports and discussions, lectures, papers.

Miss Coolidge.

*Elective. 2 hours, second semester.*

## HISTORY

MISS BROWNSON, MRS. ARMSTRONG.

1. THE MEDIÆVAL PERIOD. The history of Europe from the fourth to the fifteenth century. The object of this course is to give a general survey of the political, social and ecclesiastical history of Europe from Constantine to the rise of the Hohenstaufen Empire. Due emphasis is given to the dissolution of the Roman Empire in the West; Germanic invasions and settlements; the development of the Church; feudalism.

Mrs. Armstrong.

*Required of sophomores. 3 hours, first semester.*

2. THE MEDIÆVAL PERIOD (continued). The history of Europe from the Feudal Age to the Renaissance. In this course particular attention is given to the dominating influence of the Church; the Holy Roman Empire; the Crusades; the beginnings of national growth; the formation of European States.

Mrs. Armstrong.

*Required of sophomores. 3 hours, second semester.*

3. THE MODERN PERIOD. A study of the history of Europe from the beginning of the Renaissance to the Congress of Vienna, 1815. Special emphasis is laid upon the political and religious development of Europe during the Reformation, the rise of Prussia, the French Revolution and the Napoleonic Wars.

Miss Brownson.

*Elective, open to students who have taken Courses 1 and 2. 3 hours, through the year.*

4. MODERN EUROPEAN SOCIAL HISTORY. Studies in local institutions and organizations, the relations of classes, manners and customs, social development, trade relations of European States.

Miss Brownson.

*Open to students taking Course 3. One section to be elected.*

a. England under the Tudors and Stuarts.

b. Russia under the Romanoffs to Alexander I.

c. France under the later Valois and the Bourbons.

*2 hours, one semester.*

5. ENGLISH HISTORY. A study of the mediæval period, discussing the growth of England; various settlements and conquests; organization of the government; origin and development of the constitution. Mrs. Armstrong.

*Elective, recommended to sophomores wishing to specialize in English Literature, but open to all students. 2 hours, first semester.*

6. ENGLISH HISTORY. A continuation of Course 5, covering the modern period of English History, and including the reformation of the church; the establishment of parliamentary control, and the development of cabinet government. Mrs. Armstrong.

*Elective, open to those who have completed Course 5. 2 hours, second semester.*

7. EUROPE IN THE NINETEENTH CENTURY. A study of the political history of Europe from 1815 to 1900. Miss Brownson.

*Elective, open to students who have completed Course 3. 3 hours, through the year.*

8. MODERN INTERNATIONAL RELATIONS. Studies in present day political problems. Miss Brownson.

*Open to students taking Course 7. One section to be elected.*

a. The United States as a World Power.

b. The Latin-American Republics.

c. Europe in Africa.

*2 hours, one semester.*

9. AMERICAN CONSTITUTIONAL HISTORY. A study of the principles upon which the American government is based, and the historical development of these principles. Miss Brownson.

*Elective, open to juniors and seniors. 2 hours, one semester.*

10. CONTEMPORARY HISTORY. A study of periodical literature, with topical reports by students. Papers upon special themes. Miss Brownson.

*Elective, open to all students. 1 hour, through the year.*

## GREEK

MISS ROOT

1. GRAMMAR AND PROSE COMPOSITION, *First Greek Book* (White); XENOPHON, *Anabasis* (Goodwin and White).

*Elective. 3 hours, through the year.*

2. XENOPHON, *Anabasis* continued through Book IV; HOMER, *Iliad* (Seymour), Books I, II and III. *Greek Prose Composition* (Pearson).

*Elective. 3 hours, through the year.*

*Course 1 is open to students not offering Greek in college preparation. Course 2 is open to students entering college with one year of Greek as third language.*

3. PLATO, *Apology, Crito*; XENOPHON, *Memorabilia*. Greek Prose Composition.

*Elective. 3 hours, first semester.*

4. HOMER, *Odyssey*, Selections from Books I-XII. The epic will be studied as a whole from the literary standpoint; Homeric life and antiquities will be studied in detail. Greek Prose Composition.

*Elective. 3 hours, second semester.*

5. THE ATTIC ORATORS. Selected orations from Lysias, Isocrates and Demosthenes.

*Elective. 3 hours, first semester.*

6. AESCHYLUS, *Prometheus Bound* (Mather); SOPHOCLES, *Ædipus Tyrannus* (Earle); EURIPIDES, *Medea*. Private reading on the archæology of the drama (actors, costumes, buildings, etc.)

*Elective. 3 hours, second semester.*

7. HERODOTUS, Books VI and VII, and a study of the Persian Wars.

*Elective. 2 hours, one semester.*

8. THUCYDIDES, and a study of the Peloponnesian War.

*Elective. 2 hours, one semester.*

9. HISTORY OF GREEK LITERATURE. Lectures with private reading assigned in Greek and English.

*Elective, open to juniors and seniors. 2 hours through the year.*

10. PLATO, *Phaedo*.

*Elective, open to juniors and seniors. 2 hours, one semester.*

11. ARISTOPHANES, *Frogs or Clouds*. Selections from the Lyric Poets.

*Elective, open to juniors and seniors. 2 hours, one semester.*

12. ADVANCED GREEK PROSE. Constructive study of Greek syntax and style.

*Elective, advised for those intending to teach Greek. 2 hours, one semester.*

13. INTRODUCTION TO GREEK ARCHÆOLOGY. An outline course in the study of Greek pottery, architecture, sculpture and minor antiquities, illustrated.

*Elective. 2 hours, first semester.*

## LATIN

### MISS ROOT

1. LIVY. Selections from Books I, XXI, XXII.

*Required of freshmen. 3 hours, first semester.*

2. HORACE, *Odes and Epodes*.

*Required of freshmen. 3 hours, second semester.*

3. LATIN PROSE COMPOSITION.

*Elective, open to freshmen to supplement the work of the first semester. 1 hour, second semester.*

4. MYTHOLOGY, based upon Ovid.

*Elective, open to all students. 1 hour, second semester.*

5. INTRODUCTION TO ROMAN ARCHÆOLOGY.

*Elective, open to students who have completed Courses 1 and 2.  
1 hour, first semester.*

6. CICERO, *Letters*. A study of the political and social conditions of the period.

*Elective, open to students who have completed Courses 1 and 2.  
3 hours, first semester.*

7. CICERO, *De Senectute* and *De Amicitia*.

*Elective, open to students who have completed Courses 1 and 2.  
3 hours, one semester.*

8. TACITUS, *Annals*.

*Elective, open to students who have completed Courses 1 and 2.  
2 hours, one semester.*

9. TACITUS, *Germania* and *Agricola*.

*Elective, open to students who have completed Courses 1 and 2.  
2 hours, one semester.*

10. PLINY, *Letters*. Study of political and social conditions under the early empire.

*Elective, open to students who have completed Courses 1 and 2.  
2 hours, second semester.*

11. HORACE, *Satires* and *Epistles*.

*Elective, open to students who have completed Courses 1 and 2.  
2 hours, first semester.*

12. LATIN COMEDY. Selected plays of Plautus and Terence.

*Elective, open to juniors and seniors. 3 hours, one semester.*

13. HISTORY OF LATIN LITERATURE. Lectures with private reading assigned in Latin and English.

*Elective, open to juniors and seniors. 2 hours, through the year.*

14. ADVANCED PROSE COMPOSITION. Constructive study of Latin syntax and style.

*Elective, advised for those intending to teach Latin. 2 hours,  
one semester.*



## GERMAN

MISS SKILTON

1. ELEMENTARY COURSE. Grammar, prose composition, reading of short stories and plays by modern writers, memorizing of poetry, conversation.

*Open to students who presented no German at entrance. 3 hours, through the year.*

2. INTERMEDIATE COURSE. Reading of modern German prose, and of the simpler classical dramas; grammar, prose composition, conversation.

*Open to students who presented two years of German, or who have taken Course 1. 3 hours through the year.*

3. COURSE IN GERMAN CLASSICS. Reading from the dramas and poems of Goethe, Schiller and Lessing. Lectures in the German language upon the classical period. Essays and oral reports upon assigned topics.

*Open to students who presented three years of German, or who have taken Courses 1 and 2. 3 hours, through the year.*

4. ADVANCED GERMAN COMPOSITION AND SYNTAX. Selected passages from English authors translated into idiomatic German. Original themes upon assigned topics. Study of idioms, synonyms and syntax.

*Open to students who have taken Courses 1 and 2, or their equivalents; especially recommended to those who expect to teach German. 1 hour, through the year.*

5. OUTLINE HISTORY OF GERMAN LITERATURE. A rapid survey of the principal movements and productions of the national literature, supplemented by assigned readings. This course is intended to serve as an introduction to the detailed study of special periods and is recommended to all students desiring to specialize in German.

*Open to students who have taken Courses 1, 2, 3, or their equivalents, or by permission, to Freshmen entering with the maximum requirements. 1 hour, through the year.*

6. LITERATURE OF THE NINETEENTH CENTURY.

Reading and discussion of representative works of the best known authors. Lectures. Essays.

a. The drama. 1 hour, through the year.

b. The novel. 2 hours, through the year.

*Open to students who have completed Course 3.*

7. CONTEMPORARY LITERATURE. Rapid reading of current fiction and drama with discussion of modern tendencies in literature. Lectures. Essays.

*Open to students who have completed Course 3. 2 hours, through the year.*

8. LEGENDARY CYCLES OF THE MIDDLE AGES. A brief survey of Germanic mythology, tracing the origin and development of the principal legends. Reading of mediæval epics in modern German translation. Comparative study of the Wagnerian opera texts.

*Open to students who have taken Courses 5 and 6. 2 hours, through the year.*

9. LESSING'S LIFE AND WORKS. Study of his critical and controversial writings.

*Open to students who have taken Courses 4 and 6. 2 hours, first semester.*

10. SCHILLER'S LIFE AND WORKS. Study of his historical prose, philosophical poems and æsthetic, critical writings.

*Open to students who have taken Courses 4 and 6. 2 hours, second semester.*

11. GÖTTE'S LIFE AND WORKS. Survey of his life, with special reference to his prose writings.

*Open to juniors and seniors. 2 hours, first semester.*

12. GÖTTE'S FAUST. PARTS I AND II. Development of the Faust legend and the genesis of Götte's Faust. Methods of Faust interpretation.

*Open to juniors and seniors. 3 hours, second semester.*

13. HEINE AND THE ROMANTIC SCHOOL. Lectures and Readings.

*Open to juniors and seniors. 2 hours, second semester.*

14. COLLOQUIAL GERMAN. Discussions and themes based upon German life, customs and travel.

*Open by permission to students electing the advanced literary courses. 1 hour, through the year.*

15. GERMANIC PHILOLOGY.

a. Gothic.

Grammar. Ulfilas' translation of the Bible. Lectures upon the development of the German language.

b. Middle High German.

Grammar. Selections from the Niebelungenlied, from Hartman von Aue, Wolfram von Eschenbach. Lectures.

*Open to seniors and graduates. 2 hours, through the year.*

NOTE: German is the language of the classroom and is required in all recitations.

## FRENCH

MADAME DE VALLAY

1. ELEMENTARY COURSE. Grammar, thorough drill on verbs; reading works of Colin, Labiche et Martin, Sandeau, About, Michelet; Fables de La Fontaine, committed to memory; dictation, composition, conversation.

*Offered to freshmen who have presented no French at entrance. 3 hours, through the year.*

2. INTERMEDIATE COURSE. Grammaire Littéraire. Lectures on the history of French literature of the eighteenth century accompanied by collateral reading of representative French authors. Drill in letter writing. English translated into idiomatic French, dictation, composition.

*Open to students who have presented the minimum entrance requirements. 3 hours, through the year.*

3. OUTLINE HISTORY OF FRENCH LITERATURE. Histoire de la Littérature Française. Lectures on the French literature of the seventeenth century. Collateral reading from the leading authors of the time; Boileau, Corneille, La Fontaine, Molière, Descartes, Pascal. Composition, conversation.

*Open to students who have had Course 2, or have presented maximum entrance requirements. 3 hours, through the year.*

4. THE PRECURSORS OF THE FRENCH ROMANTIC SCHOOL. Lectures on representative authors. Reading selections from Madame de Staël, Madame de Lafayette, Rousseau, Chateaubriand, Lamartine. Composition, conversation.

*Open to students who have had Course 3 or its equivalent. 2 hours, through the year.*

5. ORIGIN AND DEVELOPMENT OF THE FRENCH LANGUAGE. Lectures on the literature of the sixteenth century. Reading of selections from representative authors. Composition, conversation.

*Elective, open to students who have had Course 2 or its equivalent. 2 hours, through the year.*

6. CLASSICAL TRAGEDIANS AND COMEDIANS. Lectures on Racine, Corneille, Molière, with a critical study of their works. Composition, conversation.

*Open to students who have had Course 3. 2 hours through the year.*

7. FRENCH LITERATURE OF THE NINETEENTH CENTURY. Lectures on representative authors. Reading from works of Daudet, Victor Hugo, Rostand. Composition, conversation.

*Elective, open to students who have had Course 3 or its equivalent. 2 hours, through the year.*

8. ADVANCED FRENCH PROSE. Selected English authors translated into idiomatic French. Thorough study of

syntax, idioms and synonyms. Brunot: Grammaire des Grammaires. Composition, conversation.

*Elective, open to students who have had Course 5 and recommended to those who wish to teach French. 1 hour through the year.*

9. THE FRENCH DRAMA OF THE NINETEENTH CENTURY, with brief résumé of its earlier development. Rapid reading course. Composition based upon works read. Topics assigned for reports. Conversation.

*Elective, open to students who have had Course 3. 2 hours, through the year.*

10. FRENCH EPICS. Lectures on La Chanson de Roland, La Henriade, La Légende des Siècles. Reading of the Epics.

*Elective, open to students who have had Course 9. 2 hours, through the year.*

11. CURRENT EVENTS. Discussion of political and literary questions of the day with supplementary reading of history, novels and magazine articles in relation to subjects. The course is strictly conversational.

*Elective, offered to graduates and students who have had Courses 3 and 8, or their equivalents. 1 hour through the year.*

## ITALIAN

MADAME DE VALLAY

1. ELEMENTARY COURSE. Grammar, prose composition. Reading of short stories and plays by modern authors. Memorizing of poetry. Conversation.

*Elective. 3 hours, through the year.*

2. INTERMEDIATE COURSE. Reading of modern Italian prose and of simple classical dramas. Grammar, prose composition. Conversation.

*Elective, open to those who have taken Course 1. 3 hours, through the year.*

## ENGLISH LANGUAGE AND LITERATURE

MR. PUTNAM, MISS COOLIDGE

1. THE SHORT STORY. An appreciative study of short story masters in American and European literature and of the development of the short story as a new art form. Readings, discussions, reports.

*Open to freshmen. 2 hours, first semester.*

2. SHAKESPEARE. A study of the language, poetry and characters in four plays of Shakespeare. Merchant of Venice, King Lear, Henry IV and The Winter's Tale will be studied in 1911-12. The primary aim is to compel intimate knowledge of the idiom, poetry and character method of a limited number of plays. The course may be elected in successive years.

*Open to freshmen and sophomores. 3 hours, second semester.*

3. ANGLO-SAXON. An elementary course. Anglo-Saxon primer and reader. Translation of representative prose and poetry, and a study of the Anglo-Saxon grammar. Students intending to specialize in English Literature are urged to take this course.

*Open to freshmen and sophomores. Alternates with Course 21. Will be offered in 1912-13. 2 hours, second semester.*

4. LINGUISTICS. Shakespeare, his art and development, first semester. Chaucer, second semester.

*Required of sophomores. 2 hours, through the year.*

5. NARRATIVE POETRY. A study of the best known middle length narrative and didactic poems in English Literature. Attention is given to prosody and biography. The work covers the best known poets from the fourteenth to the nineteenth centuries inclusive. The discussion is designed to supplement the work in English I.

*Open to freshmen. 2 hours, second semester.*

6. OUTLINES OF ENGLISH LITERATURE. A study of the development of English Literature from Boewulf to



Tennyson, together with the forces and types that have dominated it. Assigned readings, reports, discussions, lectures.

*Required of juniors. 2 hours, through the year.*

7. SHAKESPEARE. A study of the growth of the mind, art and philosophy of Shakespeare as represented in fifteen typical plays. Collateral reading on The Life of Shakespeare, theories of the sonnets, Baconian hypothesis, and other allied topics. Lectures, reports, discussions.

Students taking English 7 are urged to take English 2 as preparation.

*Open to sophomores, juniors and seniors. Given in alternate years. Will be offered in 1911-12. 3 hours, first semester.*

8. ENGLISH DRAMA. The origin and development of the English drama to the closing of the theaters in 1642. A study of representative masterpieces of the great playwrights. Lectures, reports, theses. Prerequisites English 2 and English 7.

*Open to juniors and seniors. Given in alternate years. Will be offered in 1911-12. 3 hours, second semester.*

9. THE ESSAY. A study of its types and characteristics. Extended reading in the works of the great essayists, including Bacon, Addison, Steele, Macaulay, Carlyle, Lamb, Hazlitt, Emerson, Lowell, De Quincy, Arnold and Stevenson. Reports, discussions, lectures.

*Open to juniors and seniors, and to students who have taken Course 21. Given in alternate years. Will be offered in 1912-13. 3 hours, first semester.*

10. THE NOVEL. A study of the development of the English novel, its types and significance. Extended reading in the novels of the nineteenth century. Reports, discussions, lectures. The student will be held responsible for at least fifteen novels in addition to collateral reading. Theses may be required.

*Open to juniors and seniors. Given in alternate years. Will be offered in 1912-13. 3 hours, second semester.*

11. AMERICAN LITERATURE. A seminar in the development of American Literature from 1607 to 1900. Topics will be assigned, reports and theses required, wide reading insisted upon, and the class left to the conduct of its members in turn. It is designed for those who have specialized in English and who expect to teach it or to pursue graduate study.

*Open to juniors and seniors. Given in alternate years. Will be offered in 1911-12. 3 hours, first semester.*

12. LITERARY CRITICISM. A seminar in the history of criticism, in its literature, and in the interpretation of good literature. The aim is to acquaint the student with the elements which compose good literature and with the sources of suggestion in criticizing. Topics, assigned readings, reports, theses. Students will be required to conduct the recitations. Prerequisite English 2. Intended for students who expect to teach or to pursue graduate study and who have specialized in English. The course is limited in numbers.

*Open to juniors and seniors. Given in alternate years. Will be offered in 1911-12. 3 hours, second semester.*

15. ANGLO-SAXON. An advanced course for students specializing in English or German. A careful study of the grammar and diction of Old English. Reading of Beowulf entire and poems from Cædmon and Cynewulf. Prerequisite English 3.

*Open to juniors and seniors. Given in alternate years. Will be offered in 1912-13. 2 hours, through the year.*

16. BROWNING. A seminar in the poetry and philosophy of Robert Browning. Lectures, papers, discussions.

*Open to juniors and seniors. 1 hour, through the year.*

17. THE NOVEL. A study of novel literature and great novelists. The reading is not limited to the English novel, but includes masterpieces from the American, Russian and French. The aim is to give the student a wide, critical knowledge of what is great in the novel of every

literature. Lectures, discussions, assigned readings. Course 17 does not cover the field of Course 10; both may be counted toward a degree. Students are urged to take Rhetoric 2 as a prerequisite.

*Open to juniors and seniors. Given in alternate years. Will be offered in 1911-12. 3 hours, through the year.*

19. WORDSWORTH, TENNYSON, BROWNING. A critical reading course. Assigned readings, lectures, reports.

*Open to sophomores, juniors and seniors. Given in alternate years. Will be offered in 1911-12. 2 hours, first semester.*

21. THE ESSAY. A study of the development of the essay as a distinct form. Readings from the lives and works of the essayists. Also, subordinate work in the lyric. A course in criticism and appreciation. Readings, discussions, reports.

*Open to freshmen and sophomores. Alternates with Course 3. Will be offered in 1911-12. 2 hours, first semester.*

Courses 1 to 10 and 19 to 20 are open to special students if their preparation is sufficient to warrant the instructor in admitting them.

Courses 7 to 19 are open to graduate students specializing in English, but an exceptional standard of work in quantity and quality will be expected of them.

The head of the department will oversee any additional research work which graduate students or undergraduates specializing in English may desire to pursue.

## **RHETORIC**

MR. PUTNAM, MISS LINDSAY

1. ENGLISH COMPOSITION. Daily or weekly themes. Study of a text-book. Application of the principles of description, narration, exposition and argumentation. Assigned readings, reports, discussions, classroom analyses and criticism. A general outline course in the fundamentals of rhetoric.

*Required of freshmen. 2 hours, through the year.*

2. NARRATION. An advanced course in the rhetoric of emotion. A study of the principles of description and narration and their application in daily and weekly themes. Assigned readings in narrative masterpieces, especially in the short story. Reports, discussions, classroom criticism.

*Open to sophomores and juniors. Given in alternate years. 2 hours, through the year.*

3. ARGUMENTATION. An advanced course in the rhetoric of thought. A study of the principles of exposition and argumentation, of conviction and persuasion. Text-books, assigned readings in the masterpieces, reports, discussions, criticism. Constant practice in preparation of notes, outlines, briefs and themes. The aim is to cultivate clear thinking and effective expression.

*Open to sophomores, juniors and seniors. Given in alternate years. Will be offered in 1911-12. 2 hours, through the year.*

4. POETICS. A study of the nature, origin and development of English verse forms. Assigned readings, reports, discussions, lectures; weekly practice in the writing of original or imitative verse. The course is both a study of the literature of English verse and a practice in its production.

*Open to juniors and seniors. 2 hours, through the year.*

5. DRAMATICS. A study of the principles which underlie dramatic composition. Criticism and analysis of representative dramas. Lectures, assigned readings, reports, discussions. Practice in the writing of original dramas.

Prerequisites 4 hours in Rhetoric, English 2, English 7 and English 8. The instructor reserves the right to limit the numbers taking the course.

*Open to seniors. 2 hours, first semester.*

6. ADVANCED THEMES. Mr. Putnam will assume personal supervision of a limited number of students each semester who desire to do special work in composition. The work is adapted to the needs of each separate student as far

as is practicable. The course may be elected as a one or two hour course, for one semester or through the year, and may be taken in successive years. Themes and one conference each week.

*Open to all students who have taken Rhetoric I.*

## **BIBLICAL LITERATURE**

MISS BROWNSON

### **1. HISTORICAL STUDY OF THE LIFE OF CHRIST.**

*Required of freshmen. 1 hour, through the year.*

**2. THE APOSTOLIC AGE.** The organization of the Christian Church and the development of its life and literature during the first century.

*Required of sophomores. 1 hour, through the year.*

**3. OLD TESTAMENT HISTORY.** Studies in the development of the Hebrew people, the growth of political institutions, the influence of other nations, the religious life, the literature.

*Required of juniors. 1 hour, through the year.*

**4. OLD TESTAMENT PROPHECY.** A study of the development and characteristics of prophecy, the place of the prophets in the life of Israel, the relation of prophecy to history, Messianic prophecy.

*Required of seniors. 1 hour, through the year.*

**5. HEBREW POETRY.** A study of the poetry of the English Old Testament, especially the Psalms, the Proverbs.

*Elective, open to juniors and seniors. 2 hours, first semester.*

**6. HISTORICAL GEOGRAPHY OF PALESTINE.** The land in its physical aspects, the place of Syria in history, the interpretation of the Bible by geographical study, detailed survey of the country.

*Elective, open to juniors and seniors. 2 hours, one semester.*

**7. BIBLICAL ARCHÆOLOGY.** Studies of the results of modern exploration in Biblical lands.

*Elective, open to juniors and seniors. 2 hours, one semester.*

## MATHEMATICS

MR. MARTIN.

1. SOLID GEOMETRY. Theorems and constructions as given in Durell's *Solid Geometry*. Solution of numerous original exercises, including loci problems. Application to the mensuration of surfaces and solids.

*Required of freshmen. 3 hours, first semester.*

2. PLANE AND SPHERICAL TRIGONOMETRY. Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles. Proofs of principal formulas, in particular for the sine, cosine and tangent of the sum and difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines; the transformation of trigonometric expressions by means of these formulas. Solution of trigonometric equations. Theory and use of logarithms. Solution of right, oblique and spherical triangles and practical applications.

*Granville's Plane and Spherical Trigonometry is used as a text-book.*

*Required of freshmen. 3 hours, second semester.*

3. ALGEBRA. Required of freshmen who are deficient in requirements for admission as given in III. Mathematics. Note, page 26.

*1 hour, first semester.*

4. HIGHER ALGEBRA. Permutations and combination. Complex numbers with graphical representation of sums and differences. Determinants including the solution of linear equations. Numerical equations of higher degree and the theory of equations, with graphical methods, including Descartes' rule of signs and Horner's method.

*Students intending to pursue the courses in higher mathematics are required to elect this course. Prerequisite Course 2, or may be taken parallel with Course 2. 2 hours, one semester.*

5. HISTORY OF MATHEMATICS. This course is offered in the belief that it is essential to a thorough understanding



of elementary mathematics. It treats of the development of mathematics from the earliest known times to the invention of analytic geometry by Descartes in 1637. The subjects considered are Number Systems, Numerals, Arithmetic, Algebra and Geometry.

References: Histories of Mathematics by Ball, Fink, Gow and Cajori; Fine's *Number-systems of Algebra*, Smith's *Teaching of Elementary Mathematics*, and Schubert's *Mathematical Essays and Recreations*.

*Prerequisite Course 2. 2 hours, one semester.*

#### 6. ANALYTIC GEOMETRY, PLANE AND SOLID.

Tanner and Allen's *Analytical Geometry* is used as a text-book.

*Prerequisite Course 2. 3 hours, through the year.*

#### 7. DIFFERENTIAL AND INTEGRAL CALCULUS.

Nichols' *Calculus* is the text-book.

*Prerequisite Course 6. 3 hours, through the year.*

#### 8. HISTORY OF HIGHER MATHEMATICS.

*Prerequisite Course 7; or may be taken parallel with Course 7. 2 hours, one semester.*

### ASTROMOMY

MR. MARTIN

1. ASTRONOMY, descriptive and historical. Elementary facts and principles with mathematical exercises. Location of principal constellations with field and laboratory work.

The College owns a good  $4\frac{1}{4}$  inch refracting telescope, which is at the disposal of the student for observing the sun, moon, stars and nebulae.

*Prerequisite, Mathematics, Courses 1 and 2. 2 hours through the year.*

### PHYSICS

MISS BUTTERFIELD

1. ELEMENTARY PHYSICS. The class work will consist of lectures on the subjects of mechanics, sound, light,

heat, electricity and magnetism. As far as possible these are illustrated by lecture table experiments. Carhart's *University Physics* will form the basis of the lecture work.

In the laboratory the students are first instructed in the methods of accurate measurement and in the laws governing the equilibrium and motion of bodies. Later they make determinations of electrical quantities, and problems in heat, sound and light are studied.

*Elective. 3 hours, through the year.*

## CHEMISTRY

MISS BUTTERFIELD

1. GENERAL INORGANIC CHEMISTRY. This course does not presuppose a knowledge of Chemistry. It consists of lectures and recitations on the history, occurrence, preparation and properties of the more important non-metallic and metallic elements. Classroom work is supplemented by work in laboratory, where each student prepares and transforms the chief substances studied. The text-book used is Stoddard's *Introductory to General Chemistry*.

*3 hours, through the year. Laboratory work 4 hours weekly.*

This Course, or Course 1 in Biology, required of sophomores.

2. QUALITATIVE ANALYSIS. This course consists of lectures, reviews and laboratory work. Ample practice in identifying unknown substances is given to each student. The text-book used is A. A. Noyes' *Qualitative Analysis*.

*Elective, open to students who have completed Course 1. 3 hours, first semester. Laboratory work, 2 hours weekly.*

3. QUANTITATIVE ANALYSIS. Lectures and laboratory work in gravimetric and volumetric methods.

*Elective, open to students who have completed Courses 1 and 2. 3 hours, second semester. Laboratory work, 2 hours weekly.*

4. ORGANIC CHEMISTRY. Typical organic compounds, their relations and transformations are studied. In the classroom the work is pursued by lectures and reviews. In laboratory, the more simple organic compounds are first

studied and the synthesis of more complex substances from these is then taken up. In every preparation attention is given to quantitative results. The text-books followed are Remsen's *Organic Chemistry* and Gatterman's *Practical Methods of Organic Chemistry*.

*Elective, open to students who have completed Course 1. 3 hours, through the year. Laboratory work, 5 hours weekly.*

5. LECTURES ON THEORETICAL CHEMISTRY. In this course a systematic study is made of the Atomic, Kinetic and Electrolytic Theories of the constitution of matter.

*Elective, open to students who have completed Courses 1 and 4. 1 hour, through the year.*

6. ADVANCED ORGANIC CHEMISTRY. In this course two hours a week are devoted to lectures on Methods in Organic Chemistry. Each student is assigned a problem in laboratory which she solves according to methods used in original research. An organic compound whose composition is unknown is examined and its empirical and structural formulas are determined. This determination involves the application of the most important laboratory methods used in organic research, such as combustions, molecular weight determination, etc. It is carried on independently by the student. After the correct solution of this problem, opportunity is offered the student of starting a problem in original work. The course is especially qualified to fit students for independent research and has that end in view.

7. SANITARY CHEMISTRY. Air, water and food analysis.

*Elective, open to students who have completed Courses 1, 2, 3 and 4. 3 hours, through the year.*

## BIOLOGY

MISS BUTTERFIELD

1. GENERAL BIOLOGY. Two lectures and one recitation per week, supplemented by two laboratory periods of two hours each. The course has been arranged especially

for those who desire a general knowledge of biology as part of a liberal education as well as for those who are preparing for advanced work. Field trips will be taken.

*Elective, open to all classes. 3 hours, through the year.*

2. GENERAL BOTANY. Two lectures and one recitation per week, supplemented by two laboratory periods of two hours each. This course treats of plant life from the algæ to the phanerogamus inclusive. The structure and development of certain plants are studied from seed germination to fruit formation. Students are trained to recognize the common flowers from their botanical structure and values.

*Elective, open to all classes. 3 hours, through the year.*

3. SYSTEMATIC INVERTEBRATE ZOOLOGY. This course consists of lectures and laboratory work on Protozoa, Porifera, Cœlenterata, Vernes, Echinodermata, Mollusea and Arthoropoda.

*Elective, open to all students. 3 hours, first semester, (2 lectures, 1 recitation, 2 laboratory periods.)*

4. VERTEBRATE ZOOLOGY. The student becomes familiar with a series of types of vertebrates, studying the comparative anatomy and progressive modifications of a fish, snake, frog, bird and mammal.

*Elective, open to students who have had Course 3.*

*3 hours, second semester, (2 lectures, 1 recitation 2 laboratory periods.)*

5. ADVANCED VERTEBRATE ZOOLOGY AND PHYSIOLOGY. In this course the anatomy and physiology of a typical mammal are studied. The histology of the various tissues is worked out and the physiology of muscles and nerves is investigated.

*Elective, open to students who have completed Course 1. 2 hours, first semester. Laboratory work 4 hours weekly.*

6. STRUCTURE OF CELL AND PROTOPLASM. This course includes a study of numerous protozoa; the structure of a

cell; developmental phenomena; cell division, spermatogenesis; oögenesis.

*Elective. 2 hours, second semester. Laboratory work, 4 hours weekly.*

7. THEORETICAL BIOLOGY. The lectures deal largely with the history of the development of modern Biology. The works of Lamarck, Darwin, Weismann, and De Vries are discussed in connection with the theory of evolution.

*Elective. 1 hour, through the year.*

8. EXPERIMENTAL MORPHOLOGY. The object of the course is to familiarize the student with some of the more important problems of experimental morphology and with the methods of dealing with them. The work consists of lectures and laboratory experiments.

*Elective. 2 hours, through the year.*

9. HISTOLOGY AND MICROSCOPICAL TECHNIQUE. The work consists of laboratory practice in the preparation of material for microscopical study. This course is intended for those who expect to teach or do advanced work in biology.

*Elective, open to students by special permission. 2 hours laboratory work, through the year.*

### EXPRESSION

The aim of this department is to foster in the student a larger appreciation of the truth and beauty of great prose and verse, and at the same time to develop the power of expressing to others the results of such literary work. Expressional study of the best kind cultivates beauty of speech, trains the intellect, educates the emotions and puts the student into full command of the forces of body and mind.

Elective courses are offered for all college classes, and private work may be arranged for by consultation with the instructor. Persons not registered for courses in other departments may become special students in Expression.

Students' recitals are occasionally given.

## EXPRESSION COURSES

MISS KERST.

### I. GENERAL PRINCIPLES OF VOCAL EXPRESSION.

Studies in voice, diction, melody, phrasing, rhythm, gesture, attitude, pronunciation and correct utterance. Selections are analyzed and students are assigned definite work for presentation before the class. Exercises for poise, presence, bearing; for grace and ease of manner; for breathing. Criticism and helpful suggestions are given.

*Elective, open to freshmen. 1 hour, through the year.*

2. PRINCIPLES OF VOCAL EXPRESSION. The study of thought processes in their relation to utterance. Technical vocal training, the placing of tones, compass, the development of resonance, flexibility, freedom, smoothness, purity and power. The eradication of faults in the use of the voice.

This is distinctly a practice course, in which the student applies the principles underlying all art. Selections include description, narration, oration, exposition and essay; epic, lyric and dramatic poetry. Critical analysis of the selections is made and personal criticism and guidance given in their rendition. Platform recitations are made by the student for criticism.

*Elective, open to sophomores. 1 hour, through the year.*

3. READING COURSE. Shakespeare, Browning, Tennyson.

*Elective, open to juniors. 1 hour, through the year.*

4. PRINCIPLES OF VOCAL EXPRESSION AND LITERARY INTERPRETATION. Studies in paraphrasing; types of utterance; emotion; volition; musical properties of speech; vocal technique; gesture.

*Elective, open to seniors. 1 hour, through the year.*

## PHYSICAL TRAINING

MISS KATHAN

1. (a) GYMNASTICS, including marching, corrective exercises, æsthetic dancing, Indian clubs, wands and games. Outdoor work on the athletic field in the spring and fall.



(b) Advanced classes open to those who have had previous training.

*Required of Freshmen, 1 hour through the year.*

2. AESTHETIC dancing, outdoor gymnastics and games.

*Required of sophomores, 1 hour, through the year.*

3 and 4. AESTHETIC DANCING.

*Elective, open to juniors and seniors, 1 hour, first semester.*

#### APPLIED HYGIENE

1. LECTURES ON PHYSIOLOGY, personal hygiene and domestic and public problems of sanitation, with supplementary laboratory work.

*General elective, 1 hour, through the year.*

#### MUSIC

MR. WHITMER, MME. GRAZIANI, MISS FISHER

##### THEORETICAL COURSES

MR. WHITMER

1. HARMONY. Study of chords in both modes. Ear training analysis, harmonization. Immediate application of knowledge to composition of pieces in simple forms.

*1 hour, through the year.*

2. COUNTERPOINT AND COMPOSITION. Early and modern contrapuntal methods contrasted. Detailed study of melodic and rhythmic construction, with practical application to composition.

*Open to students who have taken Course 1. 1 hour, through the year.*

3. DOUBLE COUNTERPOINT, CANON AND FUGUE. Analysis and composition.

*Open to students who have taken Courses 1 and 2. 1 hour, through the year.*

4. MUSICAL FORMS AND FREE COMPOSITION. Analysis of both normal and radical musical formations with immediate practice. Development of freedom in use of material.

*Open to students who have taken Courses 1 and 2. 1 hour, through the year.*

5. ORCHESTRATION. Detailed theoretical and practical study of orchestral instruments, their individual characteristics and their relation to the score. Score reading.

*Open to students who have taken Courses 1, 2 and 3. 1 hour, through the year.*

6. HISTORY OF MUSIC. Study of the great works, composers and virtuosi. Development of notation. Comparative study of musical periods.

*Open to students who have taken or are taking Course 1. 1 hour, through the year.*

7. APPRECIATION OF MUSIC. A free and untechnical study of men, masterpieces and criticism. Brief programs are given in connection with the lectures.

*Open to all students. 1 hour, through the year.*

Two hours of music may be counted toward a degree on condition that one hour is theoretical instruction, with which one hour of practice work may be combined by permission of the Faculty.

The College believes in the cultural power of music and in its value in the higher education of women. It expects to enlarge the courses and to keep music on the high intellectual plane which is being increasingly accorded to it by colleges.

Information concerning courses in all departments of music may be found on pages 79-85.

## ART

Lectures are given through the year by non-resident professors and the great masterpieces of painting, sculpture

and architecture are made familiar to the student. The Carnegie Institute art collections are visited under the direction of artists.

### LECTURES

The following list comprises the lectures delivered to students as part of the academic work. They are given at a morning lecture hour and attendance is required.

#### 1910-1911

Mr. Charles Caffin . . . . .	Realism and Romanticism in Art
Mr. Henry George, Jr. . . . .	Tolstoi
Miss Emma M. Campbell . . . . .	The Passion Play of 1910
Miss Jean Hamilton . . . . .	Clubs for Working Girls
Mr. W. S. Martin . . . . .	The Temperance Question
Miss Susanne Beatty . . . . .	The Juvenile Court
Miss Jennie McSherry . . . . .	Greek Art
Rev. J. M. Duff . . . . .	Hope

(Day of Prayer for Colleges) ..

Mr. Clyde Wilkins . . . . .	Characters of Dickens
Miss Estelle Paddock . . . . .	Women of China
Mr. J. C. Robbins . . . . .	Student Volunteer Movement
Miss Frances McCreery . . . . .	

Course of Alumnæ Lectures on the History of Art.

- I. Giotto and the Early Renaissance in Italy.
- II. The Venetian School and the Four Great Venetians.
- III. Renaissance in Florence—Leonardo and Raphael.
- V. Italian Decadence and the Spanish School.
- IV. Michael Angelo and Correggio.
- VI. Some Contemporary Art Movements.

### RELIGIOUS AND SOCIAL LIFE

The College is thoroughly Christian in spirit and influence, but undenominational in its management and instruction. Students are expected to be present at daily prayers in the Chapel, and resident students to be regular attendants at church on Sunday mornings and at the Sunday Vesper services in Berry Hall. The Young Women's Christian Association maintains a mid-week prayer meeting and weekly Bible classes; and it contributes to mission work at home and abroad. Systematic Bible study is one of the college requirements and four hours of such work are pre-

scribed along the lines of literature and history. The daily life of the residence halls is regulated by student government, under the direction of the house president and executive committee, who are elected by the students, subject to the approval of the Dean. Arrangements for the comfort and well-being of resident students are made by the Dean and the social plans of all classes are submitted to her before action is taken. General receptions for students and their friends are held at mid-year and in connection with the Commencement exercises. Smaller gatherings of Faculty and students occur at intervals throughout the year. The traditional College celebrations are those of Hallowe'en, Christmas, Saint Valentine's Day, and May Day, participated in by the student body. The separate classes take the initiative in more informal entertaining at suitable times. The Young Women's Christian Association gives a reception to new students at the beginning of the year, and conducts various benefits during the year for the support of its benevolent and missionary work.

### **STUDENTS' CLUBS AND ASSOCIATIONS**

The Omega Society has a membership chosen with respect to scholarship and literary ability. Its work is the promotion of an interest in literature and the providing of opportunities for practice in the art of expression. The Society holds occasional open meetings for the presentation of special programs.

The Young Women's Christian Association holds weekly prayer meetings and monthly missionary meetings. It has organized Bible classes. The Association maintains a scholarship in a missionary school in Japan, and it is responsible for the equipment of a room in the Young Women's Christian Association Building in Pittsburgh. Delegates are sent to the Annual Conventions and an active part is taken in all work looking toward the strengthening of the religious forces of the institution.

The Athletic Association is a wide-awake organization which affords the students of the College an opportunity to play basketball, tennis and all out-door games. It is the aim of the Association to foster the growth of college spirit and also to help with the running expenses of the tennis court and the basketball teams. Through the efforts of the members some very valuable apparatus has been purchased for the gymnasium.

The Dramatic Club has for its work the critical study of pieces of dramatic literature as a means of personal culture for its members, and the occasional presentation of carefully selected plays. The principal event of the club year is the production of Senior Dramatics at Commencement time. In 1910 the play presented was Rostand's *The Romançers*.

The Glee Club furnishes an excellent opportunity for training in voice. The club responds to many calls for its services at college affairs and occasionally in the city, and gives an Annual Concert. It has an enthusiastic membership and its work is much valued in the college life.

The Mandolin Club is a recent organization but its work is showing rapid progress and it has won a popular position among the college clubs.

### SCHOLARSHIPS AND PRIZES

Two scholarships are open to students of ability who expect to pursue regular courses of study, but who need financial aid in meeting the necessary expenses of a college education.

I. THE HELEN E. PELLETREAU SCHOLARSHIP. A fund has been raised by the Alumnae to establish a scholarship in honor of Miss Helen E. Pelletreau, for many years the able and beloved President of the College. This fund has not yet been made up to the full amount necessary, and contributions to it are earnestly solicited. They should be sent to Miss Eleanor J. Stevenson, 3501 Fifth Avenue, Pittsburgh.

2. THE MARY HAWES NEVIN SCHOLARSHIP. To fulfill a wish expressed by the late Mary Hawes Nevin, an alumna of the Class of 1896, her family has given the sum of \$6,000 to establish a scholarship to bear her name, and thus perpetuate the memory of her beautiful life and her interest in young women ambitious for the advantage of a college course.

The Helen E. Pelletreau Scholarship is awarded by the Scholarship Committee of the Alumnae Association, the Mary Hawes Nevin Scholarship, by Mrs. John I. Nevin. These scholarships are held for one year, but may be renewed upon application.

### **CORRESPONDENCE**

Business inquiries and letters concerning the entrance of students should be addressed to Pennsylvania College for Women, Pittsburgh, Pa. Personal letters or particular communications of parents in regard to their daughters should be sent to the President, Rev. Henry D. Lindsay, D.D., or to the Dean, Miss Cora Helen Coolidge.

### **TEACHERS' REGISTRY**

The College is deeply interested in the welfare of its Alumnae and is willing to cooperate actively with those who desire to secure teaching positions. A registry will be kept for the purpose and eligible candidates will be recommended to schools desiring to fill vacancies in their faculty lists.

### **DEGREES CONFERRED IN 1910**

#### **BACHELOR OF ARTS**

Kramer, Mary Alice . . . . .	Pittsburgh
McKibben, Elma Lenore . . . . .	Pittsburgh
Tassey, Ethel Belle . . . . .	McKeesport

#### **MASTER OF ARTS**

Lindsay, Mary Drennan, B.A., 1909 . . . .	Pittsburgh
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## SENIORS

1911

Blakeslee, Clarissa Reta . . . . .	Manorville
Carpenter, Sara Reynolds . . . . .	Wilkinsburg
Crowe, Mabel Florence . . . . .	Pittsburgh
Darrah, Alice Lillian . . . . .	Pittsburgh
Diescher, Irma Jessie . . . . .	Pittsburgh
Gray, Frances . . . . .	Pittsburgh
Greene, Margaret . . . . .	Hoosick Falls, N.Y.
Hamilton, Minerva . . . . .	Edgewood
McClymonds, Belle Vance . . . . .	Wilkinsburg
McCullough, Margaret May . . . . .	Wilkinsburg
McQuiston, Rachel Dalzell . . . . .	Pittsburgh
Medley, Edith Mary . . . . .	Pittsburgh
Reitz, Edna Marie . . . . .	Oakmont
Supplee, Rosalie . . . . .	Wilkinsburg
Trussell, Elma Marie . . . . .	Carrick
Wayne, Gertrude Jeannette . . . . .	Pittsburgh
Wilson, Florence Kerr . . . . .	Wilkinsburg

## JUNIORS

Bickel, Florence Emma . . . . .	Pittsburgh
Chaddock, Edith Melvina . . . . .	Pittsburgh
Davies, Elizabeth Frances . . . . .	Munhall
Davis, Eleanor . . . . .	Oakmont
Estep, Elvira . . . . .	Pittsburgh
Gray, Mary Rariden . . . . .	Pittsburgh
Grooms, Helen Herd . . . . .	Pittsburgh
Hardy, Mary Rebecca . . . . .	Pittsburgh
Hickson, Hazel Fay . . . . .	Butler
Keen, Mary Catherine . . . . .	Baltimore
Kim, Martha Amanda . . . . .	Pittsburgh
Lindsay, Lillie Arndt . . . . .	Pittsburgh
O'Neill, Esther Amelia . . . . .	Altoona
Pierce, Beulah Vera . . . . .	Pittsburgh
Sands, Martha Josephine . . . . .	Pittsburgh
Sharp, Daisy Cochrane . . . . .	Pittsburgh
Spence, Cosette . . . . .	Uniontown
Stahlmann, Calla Loree . . . . .	Vandergrift

## SOPHOMORES

Atkinson, Nellie Faye . . . . .	Wilkinsburg
Atkinson, Lucille . . . . .	Wilkinsburg
Blair, Helen Eliza . . . . .	Pittsburgh
Cameron, Christine Etholine . . . . .	Edgewood

Clark, Laila Lenore . . . . .	Pittsburgh
Colestock, Claire . . . . .	Indianapolis, Ind.
Fletcher, Louise Emily . . . . .	Jamestown, N. Y.
Geiselhart, Emma Henrietta . . . . .	Pittsburgh
Gray, Jeanne MacLean . . . . .	Pittsburgh
Keys, Florence Rebecca . . . . .	Pittsburgh
Kingsbacher, Florence . . . . .	Pittsburgh
Lambie, Marguerite McCandless . . . . .	Wilkinsburg
Layman, Lucy Abbott . . . . .	Pittsburgh
McCague, Elizabeth Snowden . . . . .	Sewickley
McHenry, Lillian Belle . . . . .	Washington
Minor, Margaret . . . . .	Pittsburgh
Rosenbloom, Esther Gertrude . . . . .	North Braddock
Shutt, Maude Etta . . . . .	Warren
Titzell, Marguerite Gates . . . . .	Kittanning
Wayne, Sylvia . . . . .	Pittsburgh
Weihe, Elsie Naomi . . . . .	Connellsville
Wilson, Grace McMaster . . . . .	Pittsburgh
Young, Martha Elizabeth . . . . .	Vandergrift

#### FRESHMEN

Atkinson, Pauline Merle . . . . .	Wilkinsburg
Boggs, Majorie Annette . . . . .	Pittsburgh
Boyer, Eleanor Elizabeth . . . . .	Pittsburgh
Brant, Mary Wylie . . . . .	Pittsburgh
Brownlee, Janet Lowrie . . . . .	Washington
Brown, Margaret Hardy . . . . .	Pittsburgh
Burt, Pauline Charlotte . . . . .	Crafton
Colebrook, Adeline Arnold . . . . .	Pittsburgh
Goeddell, Gertrude Elizabeth . . . . .	Pittsburgh
Gray, Mary Gourley . . . . .	Coshocton, O.
Jackson, Sarah Rebecca . . . . .	Muncie, Ind.
Knight, Phoebe . . . . .	Clairton
Kochersperg, Josette . . . . .	Jamestown, N. Y.
Larimer, Rebecca Robison . . . . .	Monongahela
Little, Mary Gertrude . . . . .	Braddock
Maiden, Ada Mildred . . . . .	West Homestead
McBurney, Mary Marguerite . . . . .	Canonsburg
McWilliams, Mildred Margaret . . . . .	Pittsburgh
Plympton, Giulietta Adelinda . . . . .	Pittsburgh
Rider, Hazel . . . . .	Uniontown
Rutherford, Anna Margaret . . . . .	Washington
Rutherford, Helen Day . . . . .	Washington
Sander, Helen Marguerite . . . . .	Pittsburgh

Savage, Mary Evans . . . . .	Homestead
Stewart, Marjory . . . . .	Pittsburgh
Williams, Ethel Mae . . . . .	Glassport
Wilson, Eleanor . . . . .	Saltsburg

#### STUDENTS IN SPECIAL COURSES

Aiken, Ruth Thompson . . . . .	Pittsburgh
Betzler, Mathilda . . . . .	Pittsburgh
Blackburn, Marjorie Patience . . . . .	Williamsburg
Bonsall, Margaret . . . . .	Pittsburgh
Brackenridge, Cornelia . . . . .	Pittsburgh
Butterfield, Alice Dacre . . . . .	Pittsburgh
Campbell, Phyllis Louise . . . . .	New Athens, O.
Carpenter, Georgiana . . . . .	Wilkinsburg
Conelly, Margaret Mullen . . . . .	S. Brownsville
Crandall, Evelyn Frances . . . . .	Warren
Crowe, Elizabeth . . . . .	Pittsburgh
Early, Cora P. . . . .	Pittsburgh
Gabel, Emma A. . . . .	Pittsburgh
Gillespie, Cornelia . . . . .	Cadiz, O.
Gillespie, Mary Vickery . . . . .	Cadiz, O.
Heinsling, Mary Elizabeth . . . . .	Altoona
Hetzel, Caroline L. . . . .	Pittsburgh
Hoffman, Luella . . . . .	Pittsburgh
Homer, Susie Iona . . . . .	Pittsburgh
Kennedy, Elizabeth . . . . .	Pittsburgh
Larimer, Anna Irene . . . . .	West Newton
Lloyd, Lillian . . . . .	St. Louis, Mo.
Lynch, Hilda R. . . . .	McKeesport
McCaffrey, Bessie . . . . .	Pittsburgh
McGrew, Rosemma . . . . .	Crafton
Marshall, Sara H. . . . .	Pittsburgh
Moore, Laura M. . . . .	Wilkinsburg
Oglesby, Laura Elizabeth . . . . .	Pittsburgh
Palmer, Jessie McVean . . . . .	Johnsonburg
Parrish, Nell . . . . .	Carnegie
Peck, Ruth . . . . .	Concordia, Kan.
Phelps, Ruth . . . . .	Pittsburgh
Roberts, Helen . . . . .	Pittsburgh
Rothschild, Florence Bessie . . . . .	Pittsburgh
Schmertz, Alice . . . . .	Pittsburgh
Schmertz, Amelia . . . . .	Pittsburgh
Scott, Meryl . . . . .	Burgettstown
Slocum, Laura Rose . . . . .	Pittsburgh

Smith, Ionia Fairchild . . . . .	Clarksburg, W. Va.
Steiner, Elsa Mary . . . . .	Pittsburgh
Stitt, Vivian Jane . . . . .	Vandergrift
Stuckslager, Helen Beam . . . . .	McKeesport
Stuckslager, Sarah Huffman . . . . .	McKeesport
Van Horne, Jennie . . . . .	Braddock
Weihe, Olive . . . . .	Connellsville
Welling, Margherita E. . . . .	Pittsburgh
Weston, Mildred . . . . .	Edgewood
Woodburn, Olive Frances . . . . .	Pittsburgh

## ALUMNAE ASSOCIATION

The Association has its headquarters at the College and holds its annual meeting in the Assembly Hall on the Friday preceding Commencement day. It publishes annually the *Alumnæ Recorder*, containing a list of graduates, corrected by the latest information obtainable, and many items of interest concerning *Alumnæ* and former students.

The officers of the Association for the year 1910-1911 are: President, Mrs. Robert Maurice Trimble, '92; Vice-President, Mrs. William M. Stevenson, '94; Secretary, Miss Hilda R. Sadler, '04; Treasurer, Miss Elizabeth W. McCague, '98.

The Association is full of sympathy with college plans and purposes and manifests its feeling in very practical ways. Two clubs of recent *Alumnæ* have been organized, members of the classes between 1890 and 1900 forming Decade Club I, and graduates from 1900 on constituting Decade Club II. The *Alumnæ* Lecture Committee has again undertaken to raise and administer a fund by means of which lectures may be given in the Assembly Hall for the benefit of undergraduates and *Alumnæ*.

The special work of the *Alumnæ* Association the past year has been the completion of the Dormitory Furnishing Fund and it is most gratifying to report success in the undertaking.

## FEES

	PER YEAR
Tuition . . . . .	\$125.00
Room rent, including light and heat . . . . .	100.00
Table board . . . . .	175.00
Physical Training—	
Private lessons, twice a week . . . . .	50.00
In classes of four, twice a week . . . . .	25.00
Expression—	
Private lessons, twice a week . . . . .	\$30.00 to 50.00
Laboratory—	
Biology, or Chemistry . . . . .	15.00
Physics . . . . .	5.00
Tutoring, per hour . . . . .	1.00
Private Examination . . . . .	2.00
Diploma—	
Bachelor of Arts . . . . .	5.00
Master of Arts . . . . .	10.00
Laundry, plain pieces, per dozen . . . . .	.50
Luncheon, for day students . . . . .	.25
Boarding during vacation, per week . . . . .	7.00

## REGULATIONS FOR PAYMENT

Tuition will be remitted to resident students who are daughters of ministers. A reduction of \$25.00 will be made to day students who are daughters of ministers or of teachers.

All bills for boarding, tuition and extras are due, one-half at the beginning of the college year and the remainder on February 1. Checks should be made payable to Pennsylvania College for Women.

All arrangements for the study of music are made for the entire term. Lessons cannot be discontinued except for valid reasons and due notice must be given. No deduction will be made for lessons lost by the student.

As engagements with instructors and other provisions for the education of students are made by the College for

the entire year in advance, *no deduction can be made in the charge for tuition for either resident or day students.*

No degrees will be conferred unless all bills due to the College by the candidate have been paid.

### APPLICATION FOR ROOMS

All applications will be registered and rooms not engaged by former students will be assigned according to the date of application. There are a few double rooms, but the bedrooms are generally arranged in suites of two single rooms. Any information concerning the rooms will be given upon application to the Dean.

Resident students are received for *the year only*, or so much of it as remains at the time of entrance. Parents or guardians will be held responsible for full payment for resident students from *the date at which they had engaged to enter their daughters or wards until the close of the year in June, and no deduction will be made in bills because of absence or premature withdrawal except in case of serious and protracted illness, when the loss for board and room will be equally shared.*

All unnecessary wear of carpets, furniture, etc., is charged to the students occupying the room.





## **COURSES IN SOCIAL SERVICE**



## COURSES IN SOCIAL SERVICE

THE purpose of these courses is to give opportunity for the study by practical methods of preventive, constructive and reformatory forms of social work, particularly for young women who would prepare themselves for service, either as paid officials or volunteers. Theoretical study of sociology, the study of social problems of current interest, and a broad outlook over this field of work are combined with observation and practice, as the best preparation for intelligent and efficient service. The theoretical course is given at the college and the practical training at the coöperating institutions or agencies under the immediate direction of those in charge.

This course requires two years of study. In both years theory and practice are combined. The field work of the first year is observation in carefully selected institutions along different lines of activity, to enlarge the student's knowledge and aid her to decide intelligently the questions of future specialization. The field work of the second year requires definite practice in the field chosen.

The demand for good social workers with collegiate education is to-day greater than the supply. The College offers to young women who have a bent for social work an unusual opportunity for study which will prepare them for efficiency. Other branches of social science may be elected in connection with the Social Service courses, and special care is taken by instructors to arrange studies to meet the requirements of those students who early in the college course announce their intention of specializing in this department. Such students are advised to give special attention to gymnasium practice, English, German, French, Ital-

ian, Biology, Bible, Ethics, Psychology, Education and Economics.

Pittsburgh, with its great industries and its diversified philanthropies, is an unusual field for observation and practical work. Among the institutions and agencies coöperating with these courses are :

Associated Charities of Pittsburgh,  
Children's Department, Carnegie Library,  
The Social Settlements,  
Juvenile Court,  
Pittsburgh Free Kindergarten Association,  
Pittsburgh Playground Association,  
Young Women's Christian Association.

Many experts in social work in Pittsburgh give individual coöperation, in the form of lectures at the College or instructive talks at the institutions of which they are in charge.

#### **COURSES IN CONNECTION WITH THE REGULAR CURRICULUM**

The courses in Social Service may be elected by a regular student during the last three years in place of other electives and may lead to the degree of Bachelor of Arts. Thus a student is enabled to have a regular college course and be well informed on social work as carried on to-day, or be fitted for paid work.

**SPECIAL STUDENTS.** An applicant for admission must be eighteen years of age. She must have a High School diploma or its equivalent. Satisfactory references are required to show that the applicant has the character and the purpose necessary to success in these lines of work.

A **SPECIAL CERTIFICATE** is given to the student completing this course.

**PRICE.** The regular college tuition will be charged for the courses in Social Service with related branches of study. The College dormitory is open to such students at regular rates. Correspondence invited.

## **MUSIC SCHOOL**





## **FACULTY**

HENRY D. LINDSAY, D.D., PRESIDENT

CORA HELEN COOLIDGE, DEAN

T. CARL WHITMER, DIRECTOR

JEAN W. FISHER

Piano

ELISE GRAZIANI

Singing



## MUSIC

Unusual opportunities are offered at Pennsylvania College for Women for the study of this branch of Art. The Music School connected with the College has been enlarged and reorganized; and all the instructors have had foreign study and training in the subjects placed under their direction. Sixteen pianos are available for daily practice; and a fine three-manual and pedal pipe organ, with electric blower, makes it possible for students to secure great advantages in the way of practical work. Instruction is given in Grand Organ, Piano, Voice, Violin, Cornet and other instruments, if desired.

Students taking college courses may have two hours of music counted toward a degree, on condition that one hour is theoretical instruction, with which one hour of practice may be combined by permission of the Faculty. A descriptive list of music courses which carry college credit will be found on pages 58 and 59.

A wide range of electives has also been provided for music students who are not candidates for the B. A. degree. Satisfactory completion of a definite amount of theoretical and practical work will entitle students to receive certificates in Piano, Organ, Singing and Musical Pedagogy. A detailed statement is given on pages 80-84 of the courses offered in the Music School, and of the requirements for a certificate in any one of the departments.

It has been the constant aim of the Director to have the teaching in every line of work based on correct comprehension of the laws of the mind. The system of piano study used is rational in every respect, and represents the highest form of musical pedagogy so far reached. The student is

trained to think, to practice, to memorize, to play, to teach. Constant appeals are made to the mind and thought, thus building up and educating the student to a positive technic, repose, accuracy and a wide range of expressive power.

The organ work is upon the same intellectual plane as that of the piano. Sight reading, modulation, transposition and improvisation are studied methodically and problems of technic are systematized.

The development of the memory receives especial attention in order that the student may not only acquire a large repertoire but have it constantly available for use.

### THEORETICAL COURSES

1. HARMONY. Study of chords in both modes. Ear training, analysis, harmonization. Immediate application of knowledge to composition of pieces in simple forms.

*1 hour, through the year.*

2. COUNTERPOINT AND COMPOSITION. Early and modern contrapuntal methods contrasted. Detailed study of melodic and rhythmic construction with practical application to composition.

*Open to students who have taken Course 1. 1 hour, through the year.*

3. DOUBLE COUNTERPOINT, CANON AND FUGUE. Analysis and composition.

*Open to students who have taken Courses 1 and 2. 1 hour, through the year.*

4. MUSICAL FORMS AND FREE COMPOSITION. Analysis of both normal and radical musical formations with immediate practice. Development of freedom in use of material.

*Open to students who have taken Courses 1 and 2. 1 hour, through the year.*

5. ORCHESTRATION. Detailed theoretical and practical study of orchestral instruments, their individual characteristics and their relation to the score. Score reading.

*Open to students who have taken Courses 1, 2 and 3. 1 hour, through the year.*

6. HISTORY OF MUSIC. Study of the great works, composers and virtuosi. Development of notation. Comparative study of musical periods.

*Open to students who have taken, or are taking, Course 1. 1 hour, through the year.*

7. APPRECIATION OF MUSIC. A free and untechnical study of men, masterpieces and criticism. Brief programs are given in connection with the lectures.

*Open to all students. 1 hour, through the year.*

### COURSES IN SINGING

1. ELEMENTARY COURSE. Lessons in deep breathing. Special work for placing the voice. Tone production and the uniting of registers. Exercises and Vocalises. Easy solos and part songs.

2. INTERMEDIATE COURSE. Studies in scales, arpeggios. Exercises in enunciation of English words. Vocalises in Italian. Advanced songs by the best composers.

3. ADVANCED COURSE. Studies in phrasing and flexibility. Advanced vocalises. Studies in recitatives and easy arias from operas and oratorios.

4. CONCERT STUDY. Advanced work in all lines previously taken up. Recitatives and arias from Italian and German operas and standard oratorios. Special preparation for concert work. Studies in sacred music, both choral and solo.

*Class work, choral and sight reading is required throughout the course.*



## REQUIREMENTS FOR CERTIFICATE IN PIANO

I. PRACTICAL. The presentation of a program at graduation which will be the equivalent of the following:

- ( 1 ) Caprice (Alceste), *Gluck—Saint Saens.*
- ( 2 ) Etude IV, *Paganini-Liszt.*
- ( 3 ) Etude V, *Paganini-Liszt.*
- ( 4 ) Etude, Op. 25, No. 10, *Chopin.*
- ( 5 ) Adagio from Sonata, Op. 2, No. 2, *Beethoven.*
- ( 6 ) Suite No. 1, *Kathalene Baker.*
- ( 7 ) Polichinelle, *Rachmaninoff.*
- ( 8 ) Sonata, No. 4, *MacDowell.*
- ( 9 ) Jeux d' Eau, *Maurice Ravel.*
- (10) Etude III. (La Campanella), *Paganini-Liszt.*

2. THEORETICAL. Harmony and Single Counterpoint in four parts, five species. An example of Counterpoint no less than forty-eight measures in four parts, mixed species, to be submitted a month before Commencement. A hymn tune over words to be selected by the Director. A composition in minuet form.

3. HISTORICAL. The course as outlined in Clarence Hamilton's History of Music and the writing of two theses on selected phases of musical history.

4. COLLEGIATE. Seven hours of college work a year for two years, which may be chosen from Modern Languages, Rhetoric, English, History and allied subjects at the discretion of the President and the Dean.

## REQUIREMENTS FOR CERTIFICATE IN ORGAN

I. PRACTICAL. The presentation of a program equivalent to the following:

- (1) Fantasie and Fugue in G minor, *J. S. Bach.*
- (2) Sonata in A minor, *Joseph Rheinberger.*
- (3) Overture to Midsummer Night's Dream, *Mendelssohn.*  
(Arranged by Samuel P. Warren.)
- (4) Sketch in F Sharp major, *T. Carl Whitmer.*  
(Pub. by Breitkopf & Hærtel.)
- (5) Improvisation on a given Theme.
- (6) Symphony, No. V, *Chas. Marie Widor.*

- I. Allegro Vivace
- II. Allegro Cantabile
- III. Andantino quasi Allegretto
- IV. Adagio
- V. Toccata.

*Piano*—To organists the possession of a matured piano technic is absolutely indispensable.

2. THEORETICAL. The same as that prescribed for graduation in piano.

3. MECHANICAL. Ability to tune reed pipes and to repair all ordinary disorders of the organ.

4. COLLEGIATE. The same as that prescribed for graduation in piano.

#### REQUIREMENTS FOR CERTIFICATE IN SINGING

##### I. PRACTICAL.

a. The presentation of a program equivalent to the following:

With Verdure Clad . . . . .	<i>Haydn</i>
The First Violet . . . . .	<i>Mendelssohn</i>
My Sweet Repose . . . . .	<i>Schubert</i>
Moonlight . . . . .	<i>Schumann</i>
Sapphic Ode . . . . .	<i>Brahms</i>
The Gardener . . . . .	<i>Wolf</i>
Aria: One Fine Day (Madame Butterfly) . . . . .	<i>Puccini</i>
The Princess . . . . .	<i>Grieg</i>
Gold Rolls Here Beneath Me . . . . .	<i>Rubinstein</i>
Were My Songs With Wings Provided . . . . .	<i>Hahn</i>
Four Songs, Op. 56 . . . . .	<i>MacDowell</i>
The Danza . . . . .	<i>Chadwick</i>

b. The course in piano up to grade four.

2. THEORETICAL. The same as that prescribed for graduation in piano.

3. HISTORICAL. The same as that prescribed for graduation in piano.

4. COLLEGIATE. The same as that prescribed for graduation in piano.

## TEACHERS' COURSE

As all conscientious teachers are anxious to acquire the best methods, the College has thought it worth while to offer a special and most helpful course for the benefit of those teachers who are so occupied with their own professional work as to be unable to register for the regular courses detailed above, and who especially wish to master principles and methods of teaching.

### REQUIREMENTS FOR THE TEACHERS' CERTIFICATE

#### 1. PRACTICAL.

- a. Ability to play through fourth grade work in piano.
- b. A teaching experience of one and one-half years.

2. THEORETICAL. The same as that prescribed for graduation in piano.

3. COLLEGIATE. The same as that prescribed for graduation in piano.

*If voice or violin is elected as the major subject, piano work up to grade three will be accepted.*

## DEPARTMENT OF CHURCH MUSIC

The College is prepared to offer exceptional facilities for the study and practice of Church Music. Solo organ playing, accompanying of solos and anthems, and choir training form the work for this course.

## PITTSBURGH AND ITS MUSIC

Students have splendid opportunities to hear frequently the world's greatest artists in opera and concert, usually at special reduction in prices. Every winter the Pittsburgh Orchestra issues season tickets to the weekly concerts at the low rate, to music students, of \$5.00.

All these influences are of inestimable value in a musical education, so that a college outside of a great city can

never compete with one within in the formative, cultural factors always at work.

COURSES AND TERMS		PER SEMESTER One lesson weekly	PER SEMESTER Two lessons weekly
Grand Organ . . . . .		\$40	\$75
<i>Three-manual pipe organ for lessons and practice, blown by electric motor.</i>			
Piano . . . . .		30-40	50-75
Voice . . . . .		30	50
Violin	}	30	50
Harp			
Guitar			
Mandolin			
		PER SEMESTER	
Use of Organ, one period daily . . . . .			15
Use of Piano, one period daily . . . . .			10

### THEORETICAL COURSES

History of Music	}	Private Instruction at Piano rates. Class Instruction, for those not otherwise classified, \$15 per semester.
Harmony		
Counterpoint		
Canon		
Fugue		
Composition		
Orchestration		

### ORCHESTRAL INSTRUMENTS

Students desiring to study any orchestral instrument will be provided with an instructor from the ranks of the Pittsburgh Orchestra.

All arrangements for the study of music are made for the entire term. Lessons cannot be discontinued except for valid reasons, and due notice must be given. No deduction will be made for lessons lost by the student.

### FREE ADVANTAGES

*(Open to all Students)*

Harmony Class, Ensemble Class, Choral Class, Sight-Singing Class, Class in Musical Appreciation, Glee Club, Mandolin Club, Concerts and Lectures.

## MUSIC STUDENTS

### PIANO

Berkman, Bella Minnie . . . . .	Pittsburgh
Beswick, Lois Vera . . . . .	Wilmerding
Betzler, Mathilda . . . . .	Pittsburgh
Blackburn, Marjorie Patience . . . . .	Williamsburg
Campbell, Sara Catherine . . . . .	Oakmont
Chambers, Hazel G. . . . .	West Alexander
Crandall, Evelyn Frances . . . . .	Warren
Crowe, Elizabeth . . . . .	Pittsburgh.
Crowe, Mabel Florence . . . . .	Pittsburgh
Daub, Lyda Anna . . . . .	Crafton
Dimling, Hilda Alice . . . . .	Pittsburgh
Falkenstein, Emily . . . . .	McKeesport
Gabel, Emma A. . . . .	Pittsburgh
Gerhold, Alma E. . . . .	West Homestead
Greene, Margaret . . . . .	Hoosick Falls, N. Y.
Heinsling, Mary Elizabeth . . . . .	Altoona
Hickson, Edwina Noeline . . . . .	Butler
Homer, Susie Iona . . . . .	Pittsburgh
Jackson, Helen Smith . . . . .	Pittsburgh
Jones, Katherine . . . . .	Pittsburgh
Karabasz, Pearl Helen . . . . .	Pittsburgh
Kinnear, Esther . . . . .	Pittsburgh
Layman, Lucy Abbott . . . . .	Pittsburgh
McCague, Elizabeth Snowden . . . . .	Sewickley
McClelland, Helen Cameron . . . . .	Pittsburgh
McFarland, Katherine . . . . .	Pittsburgh
McGrew, Rosemma . . . . .	Crafton
McWilliams, Mildred Margaret . . . . .	Pittsburgh
Macalpine, Agnes Coats . . . . .	Pittsburgh
Oglesby, Laura Elizabeth . . . . .	Pittsburgh
Palmer, Jessie McVean . . . . .	Johnsonburg
Parrish, Nell . . . . .	Carnegie
Prescott, Olive . . . . .	Pittsburgh
Rice, Caroline Packard . . . . .	Edgewood
Robb, Mary A. . . . .	Carnegie
Roberts, Helen . . . . .	Pittsburgh
Rutherford, Helen Day . . . . .	Washington
Scott, Meryl . . . . .	Burgettstown
Semmelrock, Edith May . . . . .	Pittsburgh
Slocum, Laura Rose . . . . .	Pittsburgh
Smith, Ionia Fairchild . . . . .	Clarksburg, W. Va.
Smith, Ruth Anna . . . . .	Pittsburgh

Stahlmann, Calla Loree . . . . .	Vandergrift
Stitt, Vivian Jane . . . . .	Vandergrift
Titzell, Marguerite Gates . . . . .	Kittanning
Van Horne, Jennie . . . . .	Braddock
Wahr, Hilda M. . . . .	West Homestead
Walton, Mary E. . . . .	West Homestead
Weihe, Olive . . . . .	Connellsville
Welling, Margherita E. . . . .	Pittsburgh
Wertenbach, Margaret Marie . . . . .	McKeesport
Weston, Mildred . . . . .	Edgewood
Williams, Ethel Mae . . . . .	Glassport
Wilson, Eleanor . . . . .	Saltsburg
Wright, Florence . . . . .	Pittsburgh
Woodburn, Olive Frances . . . . .	Pittsburgh
Yeager, Nancy Elizabeth . . . . .	Pittsburgh
Zahn, Ruth Elizabeth . . . . .	Crafton

# VOICE

Aiken, Ruth Thompson . . . . .	Pittsburgh
Bickel, Florence Emma . . . . .	Pittsburgh
Bonsall, Margaret . . . . .	Pittsburgh
Brackenridge, Cornelia . . . . .	Pittsburgh
Brunt, Beatrice . . . . .	Pittsburgh
Butterfield, Alice Dacre . . . . .	Pittsburgh
Clemons, Marjorie . . . . .	Wheeling, W. Va.
Conelly, Margaret Mullen . . . . .	South Brownsville.
Donovan, Mary Amelia . . . . .	Pittsburgh
Goeddel, Gertrude Elizabeth . . . . .	Pittsburgh
Grooms, Helen Herd . . . . .	Pittsburgh
Hill, Harriet . . . . .	Pittsburgh
Jackson, Mrs. C. E. . . . .	Pittsburgh
Karabasz, Pearl Helen . . . . .	Pittsburgh
Keenan, Virginia E. . . . .	Pittsburgh
Larimer, Anna Irene . . . . .	West Newton
Little, Mary Gertrude . . . . .	Braddock
Lofink, Edna Margaret . . . . .	Pittsburgh
Palmer, Jessie McVean . . . . .	Johnsonburg
Prescott, Olive . . . . .	Pittsburgh
Roenigk, Jane Mevey . . . . .	Pittsburgh
Rosenbloom, Esther Gertrude . . . . .	North Braddock
Sands, Martha Josephine . . . . .	Pittsburgh
Spence, Cosette . . . . .	Uniontown
Stitt, Vivian Jane . . . . .	Vandergrift
Vogele, Mildred I. . . . .	Pittsburgh

Williams, Ethel Mae . . . . .	Glassport
Wilson, Eleanor . . . . .	Saltsburg
Wright, Florence . . . . .	Pittsburgh

#### ORGAN

Crowe, Mabel Florence . . . . .	Pittsburgh
Oglesby, Laura Elizabeth . . . . .	Pittsburgh
Smith, Iona Fairchild . . . . .	Clarksburg, W. Va.
Stuckslager, Helen Beam . . . . .	McKeesport

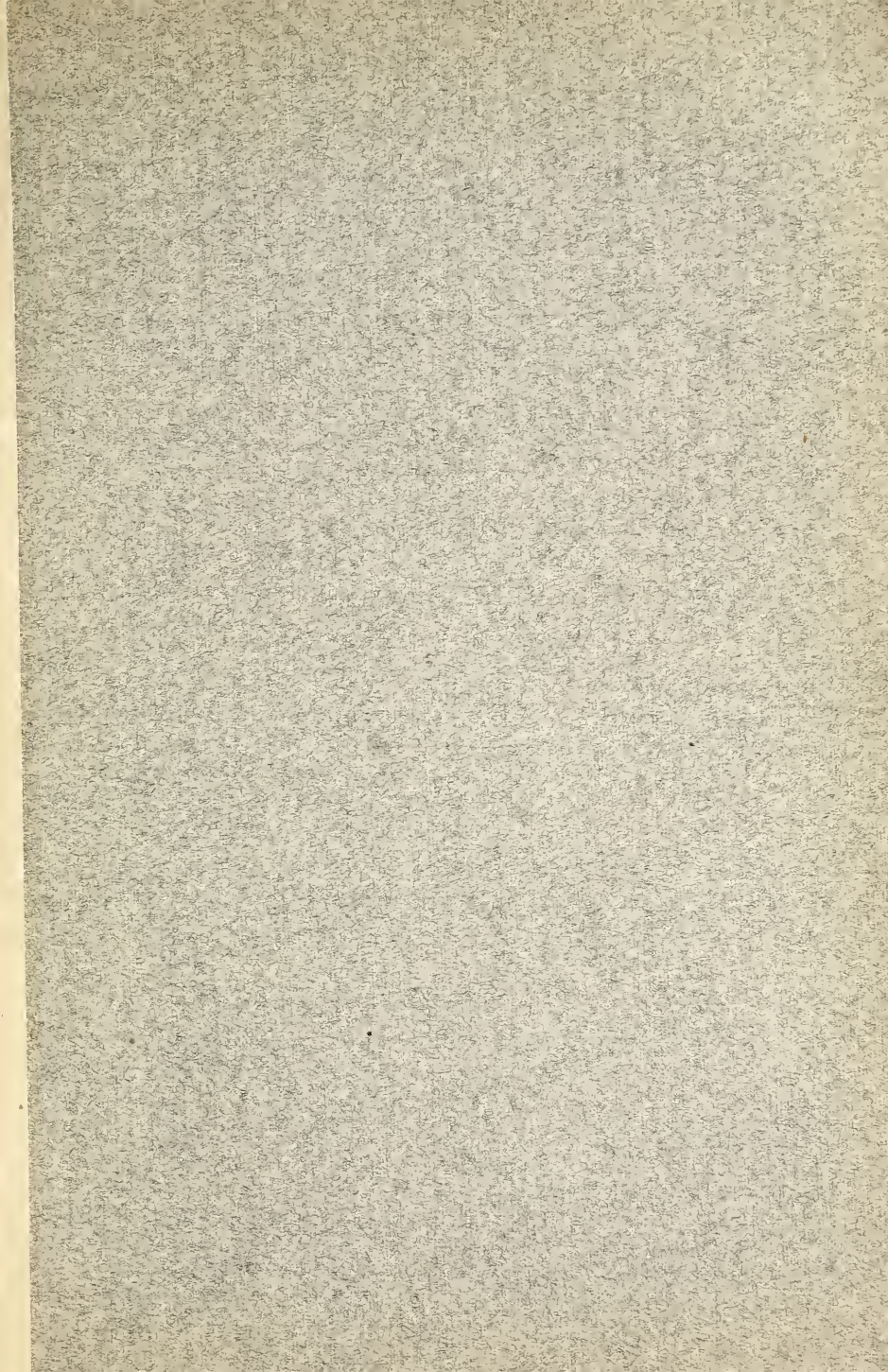
#### HARMONY

Bickel, Florence Emma . . . . .	Pittsburgh
Chambers, Hazel G. . . . .	West Alexander
Crandall, Evelyn Frances . . . . .	Warren
Crowe, Mabel Florence . . . . .	Pittsburgh
Homer, Susie Iona . . . . .	Pittsburgh
Oglesby, Laura Elizabeth . . . . .	Pittsburgh
Prescott, Olive . . . . .	Pittsburgh
Roberts, Helen . . . . .	Pittsburgh
Sands, Martha Josephine . . . . .	Pittsburgh
Slocum, Laura Rose . . . . .	Pittsburgh
Van Horne, Jennie . . . . .	Braddock
Weston, Mildred . . . . .	Edgewood
Woodburn, Olive Frances . . . . .	Pittsburgh
Williams, Ethel Mae . . . . .	Glassport

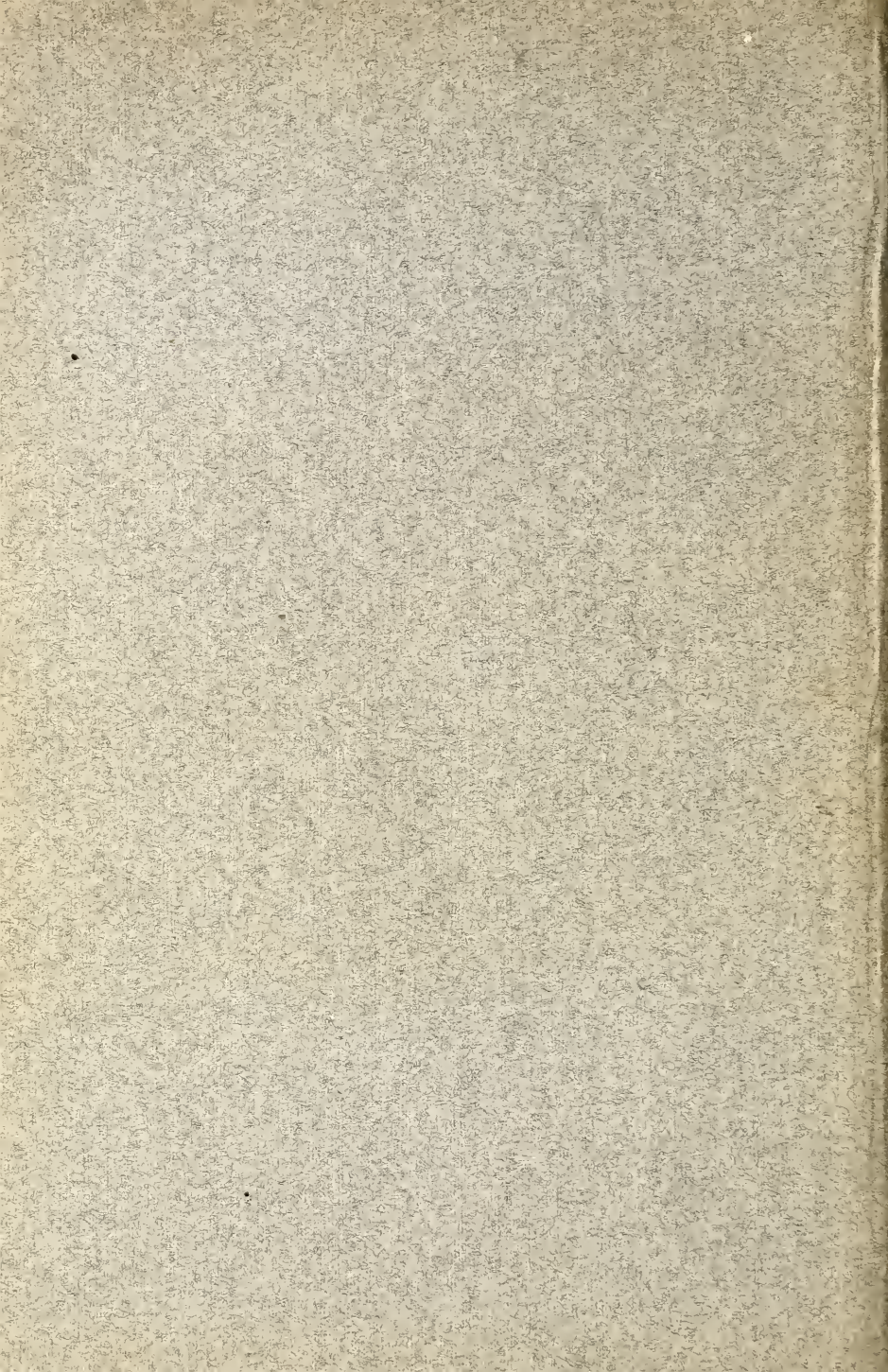
#### HISTORY OF MUSIC

Crandall, Evelyn Frances . . . . .	Warren
Crowe, Mabel Florence . . . . .	Pittsburgh
Heinsling, Mary Elizabeth . . . . .	Altoona
Homer, Susie Iona . . . . .	Pittsburgh
Oglesby, Laura Elizabeth . . . . .	Pittsburgh
Palmer, Jessie McVean . . . . .	Johnsonburg
Smith, Iona Fairchild . . . . .	Clarksburg, W. Va.
Weston, Mildred . . . . .	Edgewood
Woodburn, Olive Frances . . . . .	Pittsburgh









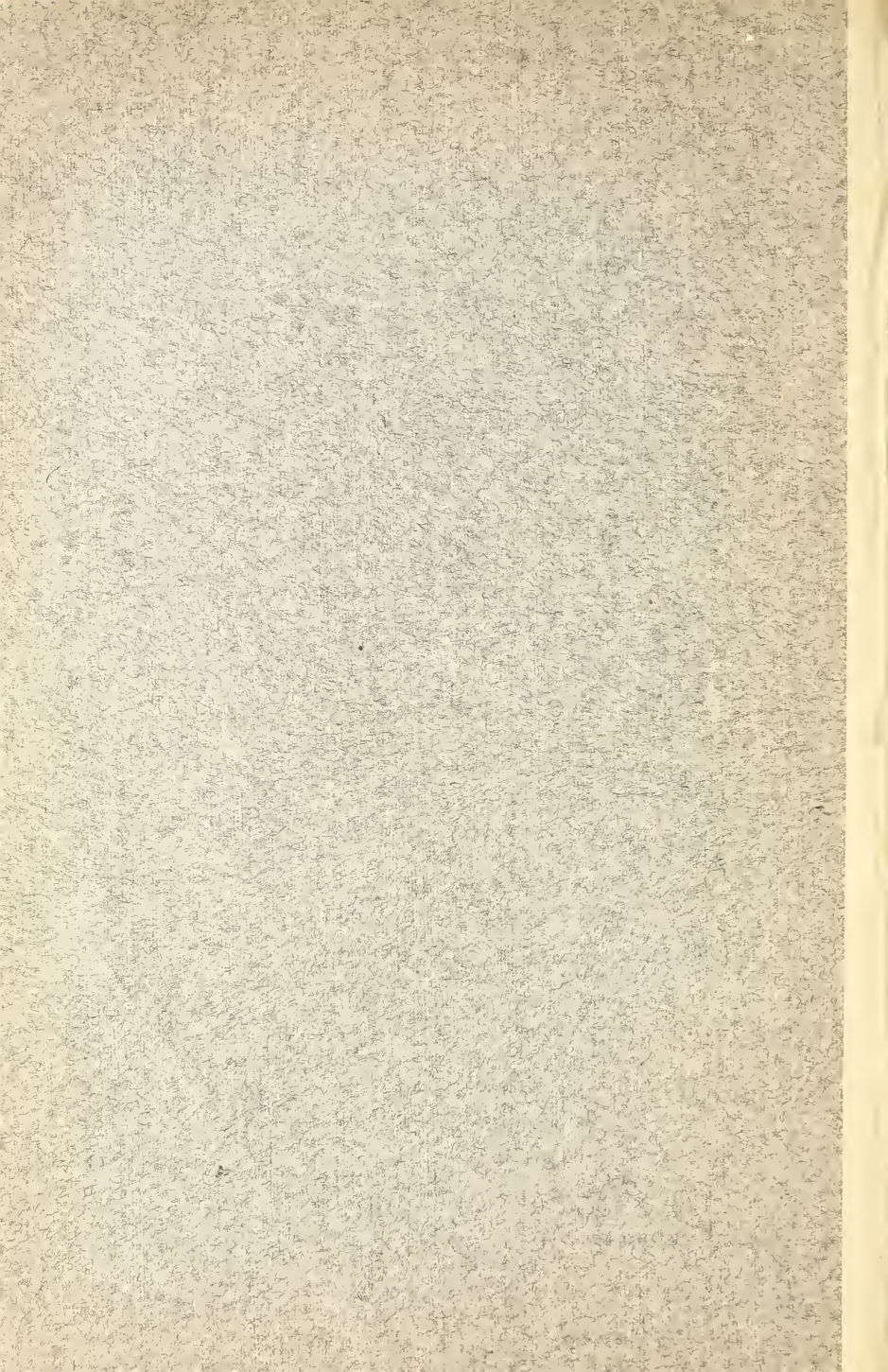


1912-1913

**Pennsylvania College for Women**

**Pittsburgh**





1912-1913

**Pennsylvania College for Women**

**Pittsburgh**



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# 1912

September							October							November							December						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	..	..	1	2	3	4	5	..	..	..	..	..	1	2	1	2	3	4	5	6	7
8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14
15	16	17	18	19	20	21	13	14	15	16	17	17	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28
29	30	..	..	..	..	..	27	28	29	30	31	..	..	24	25	26	27	28	29	30	29	30	31	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

# 1913

January							February							March							April										
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3	4	5	6	7	8	..	..	..	1	2	3	4	5
5	6	7	8	9	10	11	2	3	4	5	6	7	8	9	10	11	12	13	14	15	6	7	8	9	10	11	12	13	14	15	16
12	13	14	15	16	17	18	9	10	11	12	13	14	15	16	17	18	19	20	21	22	13	14	15	16	17	17	19	20	21	22	23
19	20	21	22	23	24	25	16	17	18	19	20	21	22	23	24	25	26	27	28	29	20	21	22	23	24	25	26	27	28	29	30
26	27	28	29	30	31	..	23	24	25	26	27	28	..	30	31	..	..	..	..	..	27	28	29	30	..	..	..	..	..	..	..

May							June							July							August						
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	1	2	3	1	2	3	4	5	6	7	..	..	1	2	3	4	5	3	4	5	6	7	8	9
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12	10	11	12	13	14	15	16
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	17	19	17	18	19	20	21	22	23
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26	24	25	26	27	28	29	30
25	26	27	28	29	30	31	29	30	..	..	..	..	..	27	28	29	30	31	..	..	31	..	..	..	..	..	..

September							October							November							December						
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
..	1	2	3	4	5	6	..	..	1	2	3	4	5	2	3	4	5	6	7	8	..	1	2	3	4	5	6
7	8	9	10	11	12	13	5	6	7	8	9	10	11	9	10	11	12	13	14	15	7	8	9	10	11	12	13
14	15	16	17	18	19	20	12	13	14	15	16	17	18	16	17	18	19	20	21	22	14	15	16	17	18	19	20
21	22	23	24	25	26	27	19	20	21	22	23	24	25	23	24	25	26	27	28	29	21	22	23	24	25	26	27
28	29	30	..	..	..	..	26	27	28	29	30	31	..	30	..	..	..	..	..	..	28	29	30	31	..	..	..

# 1914

January							February							March							April						
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	1	2	3	1	2	3	4	5	6	7	1	2	3	4	5	6	7	..	..	..	1	2	3	4
4	5	6	7	8	9	10	8	9	10	11	12	13	14	8	9	10	11	12	13	14	5	6	7	8	9	10	11
10	11	12	13	14	15	16	15	16	17	18	19	20	21	15	16	17	18	19	20	21	12	13	14	15	16	17	18
18	19	20	21	22	23	24	22	23	24	25	26	27	28	22	23	24	25	26	27	28	19	20	21	22	23	24	25
25	26	27	28	29	30	31	..	..	..	..	..	..	..	29	30	31	..	..	..	..	26	27	28	29	30	..	..

May							June							July							August						
..	..	..	..	1	2	3	..	..	..	..	..	..	..	..	..	..	1	2	3	4	..	..	..	..	..	1	
3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	9	10	11	12	13	14	15
17	18	19	20	21	22	23	14	15	16	17	18	19	20	12	13	14	15	16	17	18	16	17	18	19	20	21	22
24	25	26	27	28	29	30	21	22	23	24	25	26	27	19	20	21	22	23	24	25	23	24	25	26	27	28	29
31	..	..	..	..	..	..	28	29	30	..	..	..	..	26	27	28	29	30	31	..	30	31	..	..	..	..	..

## CALENDAR

### 1912

- 17 September, Tuesday . . . . . Entrance Examinations
- 17 September, Tuesday . . . First Semester begins—enrollment
- 18 September, Wednesday . . . . . Recitations begin
- 28 November, Thursday . . . . . Thanksgiving Day
- 20 December, Friday . . . . . Christmas Vacation begins

### 1913

- 6 January, Monday, 6 P. M. . . . . College opens
- 20 January, Monday . . . . . Mid-year Examinations begin
- 27 January, Monday . . . . . Second Semester begins
- 13 February, Thursday . . . . . Day of Prayer for Colleges
- 28 March, Friday . . . . . Spring Vacation begins
- 7 April, Monday, 6 P. M. . . . . College opens
- 17 May, Saturday . . . . . May Day Fete
- 2 June, Monday . . . . . Final Examinations begin
- 6 June, Friday, 3 P. M. . . . . Alumnae Meeting
- 7 June, Saturday, 2:30 P. M. . . . . Class Day
- 8 June, Sunday, 11 A. M. . . . . Baccalaureate Sermon  
Third Presbyterian Church
- 9 June, Monday, 8 P. M. Commencement and President's Reception
- 16 September, Tuesday . . . . . Entrance Examinations
- 16 September, Tuesday . . . First Semester begins—enrollment
- 17 September, Wednesday . . . . . Recitations begin
- 27 November, Thursday . . . . . Thanksgiving Day
- 19 December, Friday . . . . . Christmas Vacation begins

### 1914

- 5 January, Monday, 6 P. M. . . . . College opens
- 19 January, Monday . . . . . Mid-year Examinations begin
- 26 January, Monday . . . . . Second Semester begins
- 27 March, Friday . . . . . Spring Vacation begins
- 6 April, Monday, 6 P. M. . . . . College opens
- 16 May, Saturday . . . . . May Day Fete
- 8 June, Monday 8 P. M. . . . . Commencement

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MRS. WILLIAM S. MILLER	

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REV. JOHN K. MCCLURKIN, D.D.	DAVID MCK. LLOYD
MRS. JOHN I. NEVIN	JAMES J. DONNELL

### Term Expires in 1914

REV. WILLIAM L. MCEWAN, D.D.	LEE S. SMITH
WILLIAM H. REA	MRS. CHARLES H. SPENCER

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JOHN B. FINLEY  
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JAMES C. GRAY

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HON. JACOB J. MILLER

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JAMES J. DONNELL

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REV. HENRY D. LINDSAY, D.D.

MRS. CHARLES H. SPENCER

MRS. WILLIAM S. MILLER

REV. WILLIAM L. MCEWAN, D.D.

### **Committee on House Visitation**

MRS. CHARLES H. SPENCER

MRS. JOHN I. NEVIN

MRS. WILLIAM S. MILLER

### **Auditing Committee**

LEE S. SMITH

JOHN B. FINLEY

REV. WILLIAM L. MCEWAN, D.D.

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1911-12

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CORA HELEN COOLIDGE, B.L., DEAN  
Pedagogy

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Professor Emeritus, Greek and Latin

MARY W. BROWNSON, M.A.  
Biblical Literature and Modern History

ALICE T. SKILTON, M.A.  
German Language and Literature

JOSEPHINE P. DEVALLAY  
French Language and Literature  
Italian Language and Literature

GEORGE W. PUTNAM, M.A.  
English Language and Literature

VANDA E. KERST  
Expression

WILLIAM H. MARTIN, M.S.  
Mathematics

LUELLA P. MELOY, B.A.  
Sociology and Economics

T. CARL WHITMER  
Director of Music  
Piano, Organ and Theory

ELISE GRAZIANI  
Voice

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Physical Training

ALICE DACRE BUTTERFIELD, M.A.  
Chemistry and Biology

FLORENCE K. ROOT, B.A.  
Latin Language and Literature  
Greek Language and Literature

MARY DRENNAN LINDSAY, M.A.  
Instructor in English

JEAN W. FISHER  
Assistant in Piano

LUCIA VON LUECK BECKER, PH.M.  
History and Political Science

VIOLET LOUISE HOLCOMB, M.A.  
Physics

## **EXECUTIVE OFFICERS**

EMMA MELLOU CAMPBELL, M.A.  
Librarian

MARGARET A. STUART  
Secretary to the President

MRS. SARAH L. DRAIS  
House Mistress

BESSIE L. STONER  
Assistant to the Secretary

NANCY E. McFARLAND  
House Mistress of Woodland Hall





## GENERAL INFORMATION

### HISTORICAL STATEMENT

PENNSYLVANIA COLLEGE FOR WOMEN was founded to supply the need in Western Pennsylvania of an institution of higher learning, organized and maintained under distinctively Christian influences. The East End of Pittsburgh was chosen as the location best suited for such a centre of liberal education, and a campus of about eleven acres was secured upon a hill crest in immediate proximity to Fifth Avenue, and between the rapidly growing residence districts of East Liberty and Shady-side. The fine, old family residence already standing upon the property was remodeled and enlarged to meet the requirements of the new school, and at a later time received the name Berry Hall, in memory of its former owner. The founding of the College was made possible by the generous gifts and active coöperation of many interested friends; and its charter, granted in December, 1869, authorized the conferring of degrees such as are "usually granted and conferred in other colleges of the United States of America," to students who should complete the offered courses of instruction in the liberal arts and sciences. The first class to be graduated comprised six students, who received their degrees in 1873.

Dilworth Hall, the second of the college buildings in order of erection, was named for Mr. Joseph Dilworth, the largest contributor toward its cost and a staunch friend and supporter of the institution. This structure was completed and dedicated in 1888. The Gymnasium was built in 1892 and connected with a Music Hall in 1897. Woodland Hall was opened as a College House in September, 1909.

## LOCATION

The College is situated in the East End of Pittsburgh, in the center of the choicest residence section of the city. The campus is a finely shaded tract of land embracing a hill top on which the buildings stand. The campus owned by the College is part of a tract of land many times as large, containing the homes of a few families of wealth. Inasmuch as the entrance to this tract is by a private road, the College is practically located in a large, private park, thus securing an abundance of space and air, a wide view and fine opportunities for outdoor games, combined with a delightful and wholesome seclusion not easy to command in a great city.

Not least among the benefits conferred upon the College by its position in the heart of Pittsburgh is its nearness to the Carnegie Institute. Here are found a splendid library, containing 250,000 volumes; a museum, rich in material for the study of zoölogy, paleontology and ethnography; an art gallery, which maintains a valuable permanent collection of paintings, and exhibits each year work of the best living artists in Europe and America; halls of architecture and sculpture, which make possible at home the acquirement of an intellectual training obtainable under ordinary circumstances only by means of extensive travel in foreign lands.

Any of the lines of electric cars running out Fifth Avenue from the downtown district will carry passengers very near the campus entrances on Murray Hill Avenue and on Woodland Road; and cabs may be taken at the railway stations which will convey travelers to the College. Baggage entering the city by the Pennsylvania lines should be checked to the East Liberty Station.

## BUILDINGS

The main buildings of the College are so connected that practically no exposure to the weather is involved in passing from one to another. They are so disposed as to receive the sunshine on all sides in the course of the day. All the buildings are heated by steam and lighted with gas.

BERRY HALL is four stories in height. On its lower floors are the library, drawing rooms, class rooms, and the offices of the President and the Dean. On its upper floors are living rooms for faculty members and resident students.

MUSIC HALL has a spacious gymnasium on the first floor, and on the second, music studios and practise rooms.

DILWORTH HALL is devoted to academic uses. In it are the Assembly Hall, lecture rooms and laboratories.

WOODLAND HALL, the new residence house, was opened in the spring of 1909. It is a four-story building containing a large reception hall, parlors, dining and service rooms, an infirmary and living accommodations for about sixty students. It is constructed after the most approved plans for college dormitories and has been found a commodious and very attractive home.

## LIBRARIES

THE COLLEGE LIBRARY, housed in Berry Hall, contains thirty-five hundred volumes. Students have access to its shelves from 8:15 A. M. to 9:30 P. M., daily. The collection is classified according to the Dewey system, and is provided with a card catalogue. A thorough reorganization has augmented the working value of the books already on the shelves; and the departmental collections are enlarged from time to time by gifts of Alumnæ and friends, or by appropriations of funds. A Library Endowment Fund was started during 1909 by Mrs. Agnes Pitcairn Decker, an Alumna of the College, as a memorial of Mrs. Florence I. Holmes Davis, of the Class of 1875; and as this fund increases, its interest will become available for the purchase of important books.

THE CARNEGIE LIBRARY OF PITTSBURGH. The facilities of this immense library are at the disposal of the Pennsylvania College for Women, for not only is it near enough for personal consultation, but through the courtesy of the authorities of the Carnegie Library a loan department has been established at the College for students. This permits the use upon an extensive scale of outside reading in connection with all branches of assigned work.

## READING ROOM

Adjacent to the Library is a well-lighted and attractive reading room, supplied with daily and weekly newspapers, standard monthly magazines, quarterly reviews and departmental journals.

## LABORATORIES AND MUSEUMS

The Science Department is located on the third floor of Dilworth Hall and is provided with lecture rooms and with physical, chemical and biological laboratories, supplied with all modern apparatus necessary for the pursuit of the courses offered. The physics laboratory is provided with apparatus for undergraduate work in mechanics, sound, heat, light, electricity and magnetism. The chemical laboratory is equipped with accurate chemical balances, boiling and freezing point apparatus and other facilities for careful quantitative work. Connected with the chemical laboratory is a stock room situated in the basement of Dilworth Hall, from which duty free apparatus is loaned to students for use in the laboratory. This apparatus remains the property of the College and may be returned at any time; but if broken or used up the student is required to replace it. While no attempt is made to maintain a museum, students have access to a very good collection of minerals, specimens of the rarer elements and their compounds, and representatives of the less readily prepared organic substances. Collections of mounted skeletons illustrating the comparative osteology of typical vertebrates of preserved and mounted zoölogical forms, and of charts and microscopical mounts supplement the laboratory equipment in Biology.

In addition to the College equipment students have access to the abundant facilities of Carnegie Museum, among which are a valuable herbarium, paleontological specimens and a collection of 38,000 birds, besides the large Science Library.

## HEALTH AND PHYSICAL TRAINING

The health of students is made a chief object of attention. A physical examination is required of each student upon entrance

and during the year at the discretion of the Director of the Physical Training Department. The head of Woodland Hall gives her personal attention to all girls who may be ill. The infirmary in the dormitory is well equipped for the care and comfort of the sick.

The Department of Physical Training, with a well-equipped gymnasium, in its required and elective courses, offers to students of the College opportunities for intelligent exercises and the aesthetic development of the body. All resident students are expected to take daily outdoor exercise.

The regulation suit consists of black bloomers, white jumper and gymnasium shoes. This suit may be ordered through the Director at a cost of about seven dollars.

The College Athletic Association controls all athletics, which include tennis, field hockey, basket ball and swimming. Satisfactory arrangements for swimming have been made at the new Young Women's Christian Association building.

## MUSIC

The College recognizes the place of music in higher education and in its School of Music provides ample facilities for those who wish to pursue this study in connection with other college work. Attention is called to the announcement of the School of Music on page 75 of this catalogue.

Courses in the history and theory of music are counted toward the baccalaureate degree. Practice courses may be so counted if combined with a proper amount of history and theory.

## ROUTINE OF ADMISSION

Registration blanks are provided by the College for the use of applicants for admission and will be forwarded upon request. These blanks, properly filled and signed, should be in the hands of the college authorities by September 10th. A registration fee of five dollars will be charged for holding a room for a resident student. This will be credited on the first payment, or refunded if notification of withdrawal is sent before August 25th.

All applicants for admission must present satisfactory testimonials of good moral character. Those who come from other colleges must bring certificates of honorable dismissal.

### **METHODS OF ADMISSION TO THE FRESHMAN CLASS**

Admission is by one of the following methods:

*a.* EXAMINATION. Applicants for admission may be examined at the College either during the week preceding Commencement or at the opening of the College year.

Certificates of the College Entrance Examination Board are accepted in lieu of the entrance examinations at the College.

*b.* CERTIFICATE FROM ACCREDITED SCHOOLS. Instead of examination, certificates from High Schools and Academies whose work has been approved by the College and whose courses prepare for the Freshman class will be accepted. Blank forms of such certificates will be furnished instructors on application of the President, with whom they are invited to correspond. Applicants for admission are requested to present their certificates, or send them by mail to the President during the week preceding Commencement, or as soon thereafter as practicable. When the requirements given below have not been met exactly, equivalents, stated in detail, must be offered. Students received on certificate are regarded as on probation during the first semester.

### **REQUIREMENTS FOR ADMISSION TO THE FRESHMAN CLASS**

Fifteen units are required for admission to the freshman class. Of these fifteen units, three must be in English, three in mathematics, one in history, four in Latin and two in some other language than English or Latin. The remaining two units are elective.

A unit represents a subject pursued at least five three-quarter hour, or four one hour periods a week for one year.



## EXPLANATION OF REQUIREMENTS FOR ADMISSION

### ENGLISH

Three units.

Preparation should include the following subjects:

a. COMPOSITION. Students should be familiar with the essentials of English grammar, should know the fundamental principles of rhetoric and be able to apply them in the construction of effective sentences and paragraphs and in the organization of written work. No student will be accepted whose paper is notably deficient in logical development of the subject matter, or in such details of form as spelling, punctuation, grammar and division into paragraphs.

b. LITERATURE. The books recommended are the Uniform College Entrance requirements in English, but other similar works will be accepted as equivalents. Candidates will be required to write one or more paragraphs on each of several subjects, chosen from a considerably larger number, given in the examination paper. The questions on all the books assume a knowledge of subject-matter and structure, some acquaintance with the lives of the authors and the period in which they lived, but those on books prescribed for study and practice call for more detailed treatment than those on books prescribed for reading.

(1.) Book prescribed for reading and practice for students entering in 1912, 1913, 1914 are:

Group I. (Two to be selected). *The Old Testament*, including the most important narrative parts of *Genesis*, *Exodus*, *Joshua*, *Judge*, *Samuel*, *Kings*, and *Daniel*, together with the books of *Ruth* and *Esther*; the *Odyssey*, with the omission of Books I-V, XV-XVII; the *Iliad*, with the omission of the Books XI, XIII-XV, XXI; Vergil's *Aeneid*. English translations of the *Odyssey* the *Iliad*, and the *Aeneid*, of acknowledged literary merits, must be used.

Additional units from Groups II-V may be substituted for the two units of this group.



Group II. (Two to be selected). Shakespeare's *Julius Caesar*; *The Merchant of Venice*; *As You Like It*; *A Midsummer-Night's Dream*; *Twelfth Night*; *Henry V*.

Group III. (Two to be selected). *The Vicar of Wakefield*; either Scott's *Ivanhoe* or Scott's *Quentin Durward*; Hawthorne's *The House of Seven Gables*; Thackeray's *Henry Esmond*; either Dickens' *A Tale of Two Cities* or Dickens' *David Copperfield*; Mrs. Gaskell's *Cranford*; George Eliot's *Silas Marner*; Stevenson's *Treasure Island*; Defoe's *Robinson Crusoe*, Part 1.

Group IV. (Two to be selected). *The de Coverley Papers* in *The Spectator*; Franklin's *Autobiography*; Bunyan's *Pilgrim's Progress*, Part I; Irving's *Sketch-Book*; Macaulay's *Essays on Clive and Hastings*; Thackeray's *English Humorists*; selections from Lincoln, including at least the two *Inaugurals*, the *Speeches in Independence Hall and at Gettysburg*, the *Last Public Address* and the *Letter to Horace Greely*, together with a short memoir or estimate; Parkman's *Oregon Trail*; Thoreau's *Walden*; Huxley's *Autobiography* and selections from *Lay Sermons*, including addresses on *Improving Natural Knowledge*, *A Liberal Education*, and *A Piece of Chalk*; Stevenson's *Inland Voyage and Travels with a Donkey*.

Group V. (Two to be selected). Palgrave's *Golden Treasury* (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Gray's *Elegy in a Country Churchyard* and Goldsmith's *The Deserted Village*; Coleridge's *The Ancient Mariner* and Lowell's *The Vision of Sir Launfal*; Scott's *The Lady of the Lake*; Byron's *Childe Harold*, Canto IV. and *The Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), Book IV, with special reference to Wordsworth, Keats, and Shelley; Poe's *The Raven*; Longfellow's *The Courtship of Miles Standish*, and Whittier's *Snow-Bound*; Macaulay's *Lays of Ancient Rome*, and Arnold's *Sohrab and Rustum*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from*

*Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hêrvé Riel, Pheidippides, My Last Duchess, Up at a Villa-Down in the City.*

(2.) The books prescribed for study and practice for students entering in 1912, 1913, 1914 are:

Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker-Hill Oration*; Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns*.

## MATHEMATICS

Three units.

a. ALGEBRA THROUGH QUADRATICS. The four fundamental operations for rational algebraic expressions. Factoring, determination of highest common factor and lower common multiple by factoring. Fractions, including complex fractions, ratio and proportion. Linear equations, numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynominals and of numbers. Exponents, including the fractional and negative.

Quadratic equations, both numerical and literal. Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the  $n$ th term and the sum of the terms of arithmetical and geometrical progressions, with application.

b. PLANE GEOMETRY. The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurements of angles; similar polygons; areas; regular polygons and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces.

## HISTORY

One unit each.

a. ANCIENT HISTORY. With special reference to Greek and Roman History, but including also a short introductory study of the Ancient East and extending to 800 A.D.

b. MEDIAEVAL AND MODERN HISTORY. European history, from the death of Charlemagne to the present time.

c. ENGLISH HISTORY. With due reference to social development and the growth of political institutions.

d. AMERICAN HISTORY AND CIVIL GOVERNMENT.

## LATIN

One unit each.

a. GRAMMAR AND ELEMENTARY PROSE COMPOSITION. A thorough knowledge of all regular inflections, all common irregular forms, the fundamentals of syntax, and a select vocabulary.

b. CAESAR. *Gallic War*, Book I-IV, or the equivalent from other books of the *Gallic War* or the *Civil War*, or *Nepos, Lives*. The examination consists of translation at sight of narrative prose similar to the above.

c. CICERO. The four orations against Catiline and the orations from Archias and for the Manilian Law, or the equivalent from other orations of Cicero or from his letters, or from Sallust, Catiline and Jugurtha, except that the orations for the Manilian Law and for Archias are required. The examination consists of translation (together with historical, literary and grammatical questions) of passages taken from the two required orations and of sight translation of passages similar to the above in vocabulary, syntax and range of ideas. The applicant will also be examined in advanced prose composition.

d. VIRGIL. *Aeneid*, Books I-VI, or the equivalent from other books of the *Aeneid*, or from the *Bucolics* or *Georgics*, or from Ovid, *Metamorphoses*, *Fasti*, or *Tristia*, except that

*Aeneid* I, II and either IV or VI are required. The examination consists of translation (together with questions on grammar, prosody, literary and historical allusions, and subject-matter) of passages taken from the required books, and of sight translation of passages similar to the above in vocabulary, syntax, and range of ideas.

## GREEK

One unit each.

a. GRAMMAR AND COMPOSITION. The topics for examination are similar to those under Latin Grammar and Composition. See page 20.

b. XENOPHON. *Anabasis*, Books I-IV. The examination will include translation at sight.

c. HOMER. *Iliad*, Books I-III (omitting II, 494-end). The examination will include translation at sight .

## GERMAN

One unit each.

a. (1.) A knowledge of elementary grammar, including forms and the simpler rules of syntax and word order.

(2.) Reading and translation of not less than 100 pages of easy modern German prose.

(3.) Ability to read German aloud intelligently and with correct pronunciation and to answer simple questions in German based upon the texts read.

b. (1.) Further study of the grammar, particularly of the syntax, uses of modal auxiliaries, subjunctive and infinitive moods.

(2.) Reading and translation of not less than 200 pages of modern stories and plays with a few poems, in addition to the amount already indicated.

(3.) Ability to translate easy English prose into German. This ability may be acquired by constant practise in oral and written reproductions of the contents of the texts read, and by easy exercises in German prose composition.

(4.) Practice in dictation, conversation, memorizing of selected passages.

c. (1.) Further study along the lines already indicated.

(2.) A thorough review of the grammar, accompanied by the use of a good text book in German prose composition.

(3.) Reading and translation of from 300 to 400 pages of more difficult German. It is recommended that half of this amount be selected from simpler works of the classical period.

(4.) Ability to follow a recitation conducted in German, to answer questions based upon the texts and to give oral and written reproductions of passages read and discussed in the class.

## FRENCH

One unit each.

a. (1.) A knowledge of the fundamental principles of grammar is required. Inflection of nouns, adjectives, the use of all pronouns, conjugation of regular verbs and the common irregular verbs and the elementary rules of word order.

(2.) Reading and translation of not less than 100 pages of easy modern French.

(3.) Ability to read French aloud intelligently with correct pronunciation and to answer simple questions in French based upon the text read.

b. (1.) Further study of grammar, particularly of syntax. Common idiomatic phrases, uses of modal auxiliaries, subjunctive and infinitive moods.

(2.) Reading and translation of not less than 200 pages of modern stories and plays, with a few poems in addition to the amount already indicated.

(3.) Ability to translate easy English prose into idiomatic French. This ability may be acquired by constant practice in oral and written reproduction of the contents of the texts read, and by easy exercises in French composition. Practice in dictation, conversation, memorizing of selected passages.

c. (1.) Further study along the lines already indicated. A

thorough review of the grammar accompanied by the use of a good text book in French prose composition.

(2.) Reading and translation of from 300 to 400 pages of more difficult French, half of which should be selected from the simpler classics.

(3.) Ability to follow a recitation conducted in French, to answer questions based upon the texts and to give oral and written reproductions of passages read and discussed in class.

## CHEMISTRY

One-half, or one, unit.

The study of at least one standard text-book, so planned that the student may acquire a connected and comprehensive view of the most important facts and laws of elementary chemistry.

Laboratory work, comprising at least forty exercises similar to those given in Brownlee's *Laboratory Manual* or in the College Entrance Board requirement, recorded in a note book, certified by the teacher to be the original work of the student.

## PHYSICS

One-half, or one, unit.

The study of a text-book the equivalent of Carhart and Chute's *High School Physics*, supplemented by the solution of numerous simple illustrative problems. Mechanics, heat, sound, light, magnetism and electricity should be included.

Instruction by lecture table demonstrations of the practical aspects and applications of the fundamental facts and laws of physics.

Laboratory work shown in a note book certified by the instructor to be the original work of the student. The work should include at least thirty experiments chosen to give forceful illustration of these facts and laws and to develop accuracy of observation and clearness of thought.



## BOTANY

One-half, or one, unit.

The general principles of anatomy and morphology, physiology and ecology. Two thirds of the time should be devoted to individual laboratory work recorded by descriptions and diagrammatically accurate drawings.

The natural history of the plant groups and classification. The structure, reproduction and adaptations to habitat of one or two types of Algae, Fungi, Lichens, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms.

### ADMISSION TO ADVANCED STANDING

Students from other colleges whose entrance requirements are equivalent to those of the Pennsylvania College for Women and which offer equivalent courses of study will be credited with the work they have done in such colleges and admitted to advanced standing without examination. Students who do not come from other colleges, if they desire advanced credit must pass examinations in subjects offered as college work. No student will be accepted to candidacy for the baccalaureate degree after the beginning of the senior year.

### ADMISSION AS SPECIAL STUDENTS

Students may receive instruction without becoming candidates for a degree, provided they can meet the requirements for admission to the freshman class, or have pursued other studies which may be accepted as equivalent to the entrance requirements, or have such training along special lines as will warrant their admission to college classes. The college welcomes, as students, persons of mature age and earnest purpose.

All special students are required to consult with the Dean concerning their courses of study and she will arrange their work in consultation with the heads of the departments. Certificates will be given for completed work of this kind. *Special students are permitted to enter only those classes for which their previous*

*training has fitted them.* In general they are subject to the same requirement as to college regulations, number of hours of work and standing in class as regular students, but each application is considered on its merits.

## REQUIREMENTS FOR GRADUATION

The degree of Bachelor of Arts is given to students who have satisfactorily completed courses amounting in all to sixty hours of college work.

The unit of time used in measuring the value of work is a year hour,—that is, one full hour of class work weekly during the college year. The requirement for each year of the college course is fifteen hours weekly. Students who have maintained a uniformly high grade of scholarship may, by special permission of the faculty, carry extra work, not to exceed two hours per week.

The total requirement for the Bachelor's degree is as follows:

English . . . . .	six hours
Mathematics . . . . .	three hours
History . . . . .	three hours
Science . . . . .	three hours
Philosophy . . . . .	four hours
Biblical Literature . . . . .	four hours
Language (other than English) . . . .	six hours
Elective work . . . . .	thirty-one hours

## ELECTIVE WORK

Elective work is distributed as follows: three hours in the freshman year, six hours in the sophomore year, ten and one half hours in the junior year and eleven and one-half hours in the senior year.

All elections are subject to the approval of the faculty. At the end of the freshman year each student is required to choose a major department in which she will do at least eight hours of work and an allied minor department in which she will do at

least six hours of work. Not more than six hours may be elected in a single department in any one semester. The faculty retains the option of forming classes in any elected courses when fewer than six students apply for registration.

### **ATTENDANCE UPON CLASS EXERCISES**

The grade of work done by a student is necessarily affected by irregularity of attendance upon lectures or recitations. Special examinations may be required if the number of absences for any semester shall exceed the limits of moderation.

Opportunities are occasionally offered for attendance upon lectures given in the city which are connected in subject with courses offered by the College. Upon notification by the instructor concerned, students will be expected to attend such lectures, and may have them counted as part of the required work of the courses to which they are allied.

### **EXAMINATIONS**

General examinations are held in all subjects at mid-year and at the close of the college year. Partial examinations may be given at the discretion of the instructor. Examinations taken for the removal of conditions, or for the securing of credit for private work are scheduled for the opening days of a semester, but may be appointed for other times under special conditions.

Students failing to present themselves for examinations in course may secure private examinations by permission of the Dean and upon payment of a fee of two dollars. If several examinations are to be taken under one permit, a fee of three dollars shall cover the list.

### **CONDITIONS**

A student whose work in any course is unsatisfactory will be conditioned in this subject at the end of the semester. This condition must be removed by doing an assigned amount of sup-

plementary work within time-limits set by the instructor, and if considered necessary, under the direction of a tutor. If the condition is not removed at the expiration of the time-limit, the work of the course will be considered a failure. Failure in a required course must be made good by the repetition of the course at the time when it is next regularly given.

Entrance conditions are ordinarily to be made good within the first year of college attendance. No student can retain her entrance classification if she continues to carry conditions exceeding five year hours.

## REPORTS

Reports of the scholarship of students are sent out at the end of a semester to parents or guardians. A student may learn her standing in classes by making application to the Dean at the end of a semester.

## GRADUATE WORK

The degree of Master of Arts is conferred upon Bachelors who hold the degree of Arts from this college, or from some other college of equal standing, and who have satisfactorily completed one full year of graduate work under the direction of the faculty. In exceptional cases the work may be done *in absentia*, an examination being required of the candidate as a test of fitness to receive the degree.

Advanced courses appropriate for graduate study leading to the higher degrees are described in the outlines of courses of various departments. Some courses are open to both graduate and undergraduate students; graduates pursuing these courses must maintain a standard of work sufficiently high to satisfy the college authorities that they are entitled to receive graduate credit.

The amount of work required of a candidate for the degree of Master of Arts is equivalent to fifteen hour courses pursued during a period of residence not shorter than one year. Candidates for this degree are required to pass examinations in one

major and at least one minor subject, which have been determined upon not later than October 15th of the year in which the examinations will be taken. The major and one minor must be in separate departments, but the subjects should be so related as to indicate a definite acquisition in scholarship on the part of the student. A thesis on the major subject, due not later than May 1st, will be required to complete the work for the Master's degree.

A graduate of the Pennsylvania College for Women who has completed one full year of continuous graduate study in an American university of high standing may make application for the degree of Master of Arts and this may be granted upon condition that she comply with the following requirements:

1. She shall present the university registrar's certificate of credit for graduate work completed, and a letter from the chairman of her examining committee of the university certifying that her scholarship and amount of work successfully finished entitle her to the university examination for the Master's degree and that he approves her application for such a degree from the Pennsylvania College for Women.

2. She shall submit a satisfactory thesis based upon her graduate study.

3. She shall present herself for examination for the Master's degree at the discretion of the faculty.

Tuition and laboratory fees paid by graduate students are the same as those paid by undergraduates. The charge for a diploma is ten dollars.

## CURRICULUM SCHEDULE

Freshman Year	Sophomore Year	Junior Year	Senior Year
Bible Course I. 1 hour	Bible Course II. 1 hour	Bible Course III. 1 hour	Bible Course IV. 1 hour
English Course D. 2 hours	English Course C. 2 hours	English Course B. 2 hours	Ethics 1½ hours
Mathematics Course D. 3 hours	Science 3 hours	Psychology 1½ hours	Logic 1 hour
Language 3 hours	Language 3 hours	Elective 10½ hours	Elective 11½ hours
History Course D. 3 hours	Elective 6 hours		
Elective 3 hours			
15 hours	15 hours	15 hours	15 hours



## COURSES OF INSTRUCTION

### PHILOSOPHY

DR. LINDSAY, MR. MARTIN

B-1. PSYCHOLOGY. A study of the laws and the phenomena of the mind.

Dr. Lindsay.

*Required of juniors. 3 hours, first semester.*

B-2. LOGIC. A study of the principles of inductive and deductive reasoning, and of the relation of logical theory to scientific and philosophic thought.

Mr. Martin.

*Required of juniors. 2 hours, second semester.*

A. ETHICS. The history of ethical philosophy, and a study of the fundamental principles of morality.

Dr. Lindsay.

*Required of seniors. 3 hours, first semester.*

1. HISTORY OF PHILOSOPHY. An introductory outline of Greek philosophy, followed by lectures on the development of modern philosophy.

Dr. Lindsay.

*Elective. Prerequisite: Courses B. 2 hours, second semester.*

2. CHRISTIAN EVIDENCES. An outline of the grounds upon which the Christian system rests.

Dr. Lindsay.

*Elective, open to sophomores, juniors and seniors. 2 hours, first semester.*

### EDUCATION

MISS COOLIDGE

In this and other departments the student will find enough courses to enable her to meet easily the requirements of the new School Code in regard to pedagogical subjects. Ample opportunities are offered for both theoretical and practical work.

The diplomas of students who have taken the two hundred hours of educational work required by the School Code are countersigned by the school authorities. The courses in other departments which may be counted to meet the State requirements are

Philosophy, Courses B-1, B-2, A and 1; Mathematics, Course 8; History, Course 15 and Chemistry, Course 12.

In addition to the formal courses in this department there are numerous lectures at various times during the year by men of distinction in educational lines.

1. History of Education. The development of educational ideals, material and methods, with special attention to the study of the great educational reformers.

*Elective, 2 hours, first semester.*

2. Contemporary Educational Principles and Problems. Class reports and discussions, lectures, papers.

*Elective, 2 hours, second semester.*

## **SOCIOLOGY AND ECONOMICS**

MISS MELOY

1-2. SOCIAL SERVICE. Theory and observation. Introductory study of the history of philanthropy and the causes of poverty. The principles and methods of preventive, constructive and correctional agencies for social welfare. Weekly visits to carefully selected institutions in and near Pittsburgh.

*Elective, open to sophomores, juniors, and seniors. 2 hours, through the year.*

3-4. SOCIAL SERVICE. Theory and practice. Study of dependent, defective and delinquent classes and of methods of dealing with them; the treatment of needy families. Weekly practice in social work under the direction of a social settlement, child-helping society, or the Associated Charities. Papers showing the results of investigations made by students.

*Elective. Prerequisite: Course 1-2. 2 hours, through the year.*

5-6. SOCIAL SERVICE. Advanced course. Detailed study, especially of constructive methods in a field chosen by the student. Weekly practice in social work.

*Elective. Prerequisite: Courses 1-2 and 3-4. 2 hours, through the year.*

7. SOCIOLOGY. An introduction to general principles. The growth and structure of society. The scientific basis of the study.

*Elective, open to juniors and seniors. 2 hours, first semester.*

8. SOCIOLOGY. History of social theories. An historical study of the sociological systems of important writers.

*Elective, open to juniors and seniors. 2 hours, second semester.*

9-10. ECONOMICS. An introduction to the principles of economics. Practical economic problems.

*Elective, open to juniors and seniors. 2 hours, through the year.*

## HISTORY AND POLITICAL SCIENCE

MISS BROWNSON, MISS BECKER

D. HISTORY OF EUROPE TO 1750. An outline of the development of Western Europe from about 800 to 1750. A study of such important institutions and movements as, feudalism, the church, the empire, the crusades, the renaissance, the reformation, the religious and political wars and the development of the modern states.

*Required of freshmen. 3 hours, through the year.*

1-2. EUROPE FROM 1750 TO THE PRESENT TIME. This course includes such topics as the intellectual and social condition of Europe in the eighteenth century, the French Revolution, the Napoleonic era, the industrial revolution, the growth of nationalism and democracy, the unification of Italy and of Germany and the struggle for Africa and Asia.

*Elective. Prerequisite: Course D. 3 hours, through the year*

3-4. THE HISTORY OF ENGLAND. This course covers the period from the Anglo-Saxon invasion to the twentieth century. Emphasis is placed upon the growth of liberty, the organization of the government and other national institutions, the character-

istics of the British constitution, the development of the Empire and existing social and political conditions.

*Elective. Prerequisite: Courses D and 1-2. 3 hours, throughout the year.*

5-6. AMERICAN HISTORY. An outline course beginning with the colonies and extending to the present time. The emphasis is on political, social and economic factors.

*Elective. Prerequisite: Courses D and 1-2. 3 hours, throughout the year.*

7. THE DEMOCRATIC MOVEMENT IN THE NINETEENTH CENTURY. This course begins with the Congress of Vienna and takes up the democratic movement in its intellectual, economic, social and political aspects.

*Elective. Prerequisite: Courses 1-2 and 3-4. 2 hours, first semester.*

8. An intensive study of one of the following periods:

(a.) THE RENAISSANCE. This course deals with the period from 1250 to 1500 with special reference to Italy.

(b.) THE REFORMATION. A survey of the organization and doctrines of the Mediaeval Church, efforts for reform before the revolt, the spread of Protestantism and the conflict with Catholicism.

(c.) THE FRENCH REVOLUTION. This course, after considering briefly the political and intellectual conditions of the eighteenth century, takes up in detail the Revolutionary and Napoleonic eras with special attention to France but with constant reference to the other countries of Europe and to America.

*Elective. Prerequisite: Courses 1-2 and 3-4. 2 hours, second semester.*

9. THE CONSTITUTIONAL HISTORY OF THE UNITED STATES. A study of the rise of the United States as a federal state, of the principles upon which the American constitutional system is based and of the historical development of those principles.

*Elective. Prerequisite: Courses D, 1-2 and 5-6. 2 hours, first semester.*

10. CIVIL GOVERNMENT IN THE UNITED STATES. An analysis of the structure and the workings of government in the United States, local, state and national.

*Elective, open to juniors and seniors. 2 hours second semester.*

11-12. CONTEMPORARY HISTORY. A study of periodical literature with topical reports by students. Papers upon special themes.

*Elective, open to all students. 1 hour, through the year.*

13-14. PRESENT DAY POLITICS. A study of existing political conditions in the United States as found in the newspapers and periodicals of the day.

*Elective, open to all students. 1 hour, through the year.*

15. THE TEACHING OF HISTORY. After a preliminary study of the nature and treatment of historical material and of the history of history, the course takes up methods of teaching history, especially in the secondary schools. Practical exercises are required and opportunity is given for observation work in the city schools.

*Elective, open to juniors and seniors. 2 hours, first semester.*

## **GREEK**

MISS ROOT

1-2. GRAMMAR AND PROSE COMPOSITION. XENOPHON, *Anabasis*.

*Open to all students not offering Greek for entrance. 3 hours through the year.*

3-4. HOMER, *Iliad*, and *Odyssey*.

*Prerequisite: Course 1-2. 2 hours, through the year.*

5. PLATO, *Apology*, *Crito*; XENOPHON, *Memorabilia*. PROSE COMPOSITION.

*Open to freshmen entering with three units of Greek. 3 hours, first semester.*

6. HOMER, *Odyssey*.

*3 hours, second semester.*

7-8. DEMOSTHENES, *Oration on the Crown*. Selections from *Greek Lyric Poets*. Euripides, *Medea* and *Alcestes*.

*Prerequisite: Courses 5 and 6.*

9-10. AESCHYLUS AND SOPHOCLES.

*2 hours, through the year.*

11. PLATO, *Phaedo*.

*2 hours, one semester.*

12. HERODOTUS.

*2 hours, one semester.*

13. THUCYDIDES.

*2 hours, one semester.*

14-15. GREEK PROSE COMPOSITION.

*Prerequisite: Course 5. 1 hour, through the year.*

16-17. HISTORY OF GREEK LITERATURE.

*1 hour, through the year.*

## LATIN

MISS ROOT

1. LIVY. Selections from Books I, XXI. XXII.

*Open to freshmen. 3 hours, first semester.*

2. HORACE, *Odes* and *Epodes*.

*Freshmen. 3 hours, second semester.*

3. LATIN PROSE COMPOSITION.

*Open to all who enter with 4 units of Latin. 1 hour, first semester.*



4. LATIN COMEDY.

*Prerequisite: Courses 1 and 2. 2 hours, first semester.*

5. HORACE, *Satires and Epistles.*

*Prerequisite: Courses 1 and 2. 2 hours, second semester.*

6. TACITUS. *Germania and Agricola.*

*Open to juniors and seniors who have completed 1 and 2. 2 hours, first semester.*

7. CATULLUS, TIBULLUS, PROPERTIUS.

*Open to juniors and seniors who have completed 1 and 2. 2 hours, second semester.*

8. LUCRETIUS. *De Rerum Natura.*

*Prerequisite: Courses 1, 2, 3 and 4. 2 hours, first semester.*

9. POST-AUGUSTAN PROSE AND POETRY.

*2 hours, second semester.*

10. SIGHT READING.

a. Cicero, *De Senectute, De Amicitia and Letters.*

b. Selections from Ovid and Virgil.

*Open to students who have had 1 and 2. 2 hours counting as 1.*

11-12. ADVANCED PROSE COMPOSITION.

*For juniors and seniors. 1 hour, through the year.*

13-14. HISTORY OF LATIN LITERATURE.

*1 hour, through the year.*

15-16. LECTURES ON THE PRIVATE LIFE OF THE ROMANS.

*1 hour, through the year.*

## GERMAN

MISS SKILTON

1-2. ELEMENTARY COURSE. Grammar, prose composition, reading of short stories and plays by modern writers, memorizing of poetry, conversation.

*Open to students who presented no German at entrance. 3 hours, through the year.*

3-4. INTERMEDIATE COURSE. Reading of modern German prose, and of the simpler classical dramas; grammar, prose composition, conversation.

*Open to students who presented two units of German, or who have taken Course 1-2. 3 hours, through the year.*

5-6. COURSE IN GERMAN CLASSICS. Reading from the dramas and poems of Goethe, Schiller and Lessing. Lectures in the German language upon the classical period. Essays and oral reports upon assigned topics.

*Open to students who presented three units of German, or who have taken Courses 1-2 and 3-4. 3 hours, through the year.*

7-8. ADVANCED GERMAN COMPOSITION AND SYNTAX. Selected passages from English authors translated into idiomatic German. Original themes upon assigned topics. Study of idioms, synonyms and syntax.

*Prerequisite: Courses 1-2 and 3-4, or their equivalents; especially recommended to those who expect to teach German. 1 hour, through the year.*

9-10. OUTLINE HISTORY OF GERMAN LITERATURE. A rapid survey of the principal movements and productions of the national literature, supplemented by assigned readings. This course is intended to serve as an introduction to the detailed study of special periods and is recommended to all students desiring to specialize in German.

*Prerequisite: Courses 1-2, 3-4, 5-6, or their equivalents, or by permission, to freshmen entering with 3 units of German. 1 hour, through the year.*

11-12. LITERATURE OF THE NINETEENTH CENTURY.

Reading and discussion of representative works of the best known authors. Lectures. Essays.

a. The drama. 1 hour, through the year.

b. The novel. 2 hours, through the year.

*Prerequisite: Course 5-6.*

13-14. CONTEMPORARY LITERATURE. Rapid reading of current fiction and dramas with discussion of modern tendencies in literature. Lectures, Essays.

*Prerequisite: Course 5-6. 2 hours, through the year.*

15-16. LEGENDARY CYCLES OF THE MIDDLE AGES. A brief survey of Germanic mythology, tracing the origin and development of the principal legends. Reading of mediæval epics in modern German translation. Comparative study of the Wagnerian opera texts.

*Prerequisite: Courses 9-10 and 11-12. 2 hours, through the year.*

17. LESSING'S LIFE AND WORKS. Study of his critical and controversial writings.

*Prerequisite: Courses 7-8 and 11-12. 2 hours, first semester.*

18. SCHILLER'S LIFE AND WORKS. Study of his historical prose, philosophical poems and aesthetic, critical writings.

*Prerequisite: Courses 7-8 and 11-12. 2 hours, second semester.*

19. GOETHE'S LIFE AND WORKS. Survey of his life, with special reference to his prose writings.

*Open to juniors and seniors. 2 hours, first semester.*

20. GOETHE'S FAUST. PARTS I AND II. Development of the Faust legend and the genesis of Goethe's Faust. Methods of Faust interpretation.

*Open to juniors and seniors. 3 hours, second semester.*

21. HEINE AND THE ROMANTIC SCHOOL. Lectures and readings.

*Open to juniors and seniors. 2 hours, second semester.*

22-23. COLLOQUIAL GERMAN. Discussions and themes based upon German life, customs and travel.

*Open by permission to students electing the advanced literary courses. 1 hour, through the year.*

24-25. GERMANIC PHILOLOGY.

a. Gothic.

Grammar. Ulphilas' translation of the Bible. Lectures upon the development of the German language.

b. Middle High German.

Grammar. Selections from the *Nibelungenlied* from Hartman von Aue, Wolfram von Eschenbach. Lectures.

*Open to seniors and graduates. 2 hours, through the year.*

## FRENCH

MADAME DE VALLAY

1-2. ELEMENTARY COURSE. Grammar, reading of short stories and plays by modern writers. Memorizing la Fontaine's *Fables*. Prose composition, conversation.

*Offered to freshmen who have presented no French at entrance. 3 hours, through the year.*

3-4. INTERMEDIATE COURSE. Grammaire Littéraire. Lectures on the history of French literature of the eighteenth century accompanied by collateral reading of representative French authors. Drill in letter writing. English translated into idiomatic French, dictation, composition.

*Open to students who have presented one unit of French. 3 hours, through the year.*

5-6. COURSE IN THE FRENCH CLASSICS. Reading dramas of Racine, Corneille, the works of Boileau, Descartes, Pascal. Composition, conversation.

*Prerequisite: Course 3-4. 3 hours, through the year.*

7-8. THE PRECURSORS OF THE FRENCH ROMANTIC SCHOOL. Lectures on representative authors. Reading selections from Madame de Staël, Madame de Lafayette, Rousseau, Chateaubriand, Lamartine. Composition, conversation.

*Prerequisite: Course 5-6 or its equivalent. 2 hours, through the year.*

9-10. ORIGIN AND DEVELOPMENT OF THE FRENCH LANGUAGE. Lectures on the literature of the sixteenth century. Reading of selections from representative authors. Composition, conversation.

*Elective. Prerequisite: Course 3-4 or its equivalent. 2 hours, through the year.*

11-12. CLASSICAL TRAGEDIANS AND COMEDIANS. Lectures on Racine, Corneille, Molière, with a critical study of their works. Composition, conversation.

*Prerequisite: Course 5-6. 2 hours through the year.*

13-14. CONTEMPORARY LITERATURE. Rapid reading of current fiction and drama with discussions of modern tendencies in literature. Lectures. Essays.

*Elective. Prerequisite: Course 5-6 or its equivalent. 2 hours, through the year.*

15-16. ADVANCED FRENCH PROSE. Selected English authors translated into idiomatic French. Through study of syntax, idioms and synonyms. Brunot: *Grammaire des Grammaires*. Composition, conversation.

*Elective. Prerequisite: Course 9-10 and recommended to those who wish to teach French. 1 hour, through the year.*

17-18. THE FRENCH DRAMA OF THE NINETEENTH CENTURY, with brief résumé of its earlier development. Rapid reading course. Composition based upon works read. Topics assigned for reports. Conversation.

*Elective. Prerequisite: Course 5-6. 2 hours, through the year.*

19-20. FRENCH EPICS. Lectures on *La Chanson de Roland*, *La Henriade*, *La Légende des Siècles*. Reading of the epics.

*Elective. Prerequisite: Course 17-18. 2 hours, through the year.*

21-22. CURRENT EVENTS. Discussion of political and literary questions of the day with supplementary reading of history, novels and magazine articles in relation to subjects. The course is strictly conversational.

*Elective, offered to graduates and students who have had Courses 5-6 and 15-16, or their equivalents. 1 hour, through the year.*

## ITALIAN

MADAME DE VALLAY

1-2. ELEMENTARY COURSE. Grammar, prose composition. Reading of short stories and plays by modern authors. Memorizing of poetry. Conversation.

*Elective. 3 hours, through the year.*

3-4. INTERMEDIATE COURSE. Reading of modern Italian prose and of simple classical dramas. Grammar, prose composition. Conversation.

*Elective. Prerequisite: Course 1. 3 hours, through the year.*

## ENGLISH

MR. PUTNAM, MISS COOLIDGE, MISS LINDSAY

D. ENGLISH COMPOSITION. A study of the principles of composition and rhetoric. Their application in short and long themes. Text book. Class room discussions. Individual conferences.

*Required of freshmen. 2 hours, through the year.*

1. THE SHORT STORY. A reading course in the literature of the short story. A study of its nature and development as a distinct form. Assigned readings. Criticisms. Discussions.

*Open to freshmen and specials. 3 hours, first semester.*



2. SHAKESPERE. An intensive study of the idiom, poetry, dramatic structure, and character method of Shakespere as exemplified in *The Merchant of Venice*, *Macbeth*, and *The Winter's Tale*. For such specials as do not intend electing English C a separate section of this course will be organized, combining so far as practicable the purposes of the two courses.

*Open to freshmen and specials. 3 hours, second semester.*

3. FORMS OF POETRY. A study of the nature of poetry and of its various forms as exemplified by the nineteenth century poets in England. Page's *British Poets of The Nineteenth Century* is used as the basis of study. Assigned readings. Critical reports. Discussions.

*Open to freshmen and specials. 3 hours, first semester. Given in alternate years. Will be offered in 1912-1913.*

4. FORMS OF FICTION. A study of the nature of prose fiction and of its types and characteristics. Complete masterpieces chosen from representative English novelists are read. Critical reports. Discussions. Lectures.

*Open to specials and by special arrangement to freshmen and sophomores. 3 hours, second semester. Given in alternate years. Will be offered in 1912-1913.*

C-1. CHAUCER. A study of the language and literature of Chaucer. Lectures on his life and times.

*Required of sophomores. 2 hours, first semester.*

C-2. SHAKESPERE. A study of his development as a dramatist. A majority of his plays are read and discussed. Lectures. Reports. The course does not repeat the work of *English 2*.

*Required of sophomores. 2 hours, second semester.*

5. NARRATION. An advanced course in the rhetoric of feeling. A study of the principles of description and narration. Themes. Conferences. Lectures.

*Open to all who have completed English D. 2 hours, first semester.*

6. ARGUMENTATION. An advanced course in the rhetoric of thought. A study of the principles of exposition and argumentation. Text book. Themes. Discussions.

*Open to all who have completed English D. 3 hours, second semester.*

7-8. ADVANCED THEMES. A course designed to meet the individual needs of students specializing in composition. It consists exclusively of theme-writing under the immediate supervision of the instructor. Frequent conferences. Only a limited number of students will be admitted each semester.

*1 or 2 hours, first or second semester.*

B. HISTORY OF ENGLISH LITERATURE. An outline study of the development of English literature from Beowulf to Tennyson.

*Required of juniors. 2 hours, through the year.*

9. AMERICAN LITERATURE. An outline study of the development of American Literature. Lectures. Assigned readings. Reports.

*Open to sophomores, juniors, and seniors. 2 hours, first semester. Given alternate years. Will be omitted in 1912-1913.*

10. NINETEENTH CENTURY POETRY. A study of the romantic movement in English poetry from Burns to Kipling. Lectures. Assigned readings. Critical reports. The instructor reserves the privilege of confining the course to a group of poets or to the work of one poet.

*Open to sophomores, juniors, and seniors. 2 hours, second semester. Given in alternate years. Will be omitted in 1912-1913.*

11-12. THE NOVEL. A study of the origin and development of prose fiction. Assigned readings of complete masterpieces of representative novelists from Bunyan to DeMorgan. Reports. Lectures.

*Open to juniors and seniors. 3 hours, through the year. Given in alternate years. Will be offered in 1912-1913.*

13-14. ANGLO SAXON. A reading course in the grammar and

language of Old English. The first semester is mainly spent on Anglo Saxon prose, and the second semester on Beowulf.

*Open to juniors and seniors. 2 hours, through the year. Given in alternate year. Will be omitted in 1912-1913.*

15. THE ESSAY. A study of the origin, history, nature, and literature of the English essay from Bacon to the present time. Lectures. Assigned readings. Reports.

*Open to juniors and seniors. 2 hours, first semester. Given in alternate years. Will be offered in 1912-1913.*

16. THE DRAMA. An intensive study of the origin and development of the English drama. Lectures. Readings from the great dramatists.

*Open to juniors and seniors. 3 hours, second semester. Given in alternate years. Will be offered in 1912-1913.*

17-18. BROWNING. A seminar in the poetry and philosophy of Robert Browning. Lectures. Papers. Discussions.

*Open to juniors and seniors. 1 hour, through the year.*

## **BIBLICAL LITERATURE**

MISS BROWNSON

### **D. HISTORICAL STUDY OF THE LIFE OF CHRIST.**

*Required of freshmen. 1 hour, through the year.*

C. THE APOSTOLIC AGE. The organization of the Christian Church and the development of its life and literature during the first century.

*Required of sophomores. 1 hour, through the year.*

B. OLD TESTAMENT HISTORY. Studies in the development of the Hebrew people, the growth of political institutions, the influence of other nations, the religious life, the literature.

*Required of juniors. 1 hour, through the year.*

A. OLD TESTAMENT PROPHECY. A study of the development and characteristics of prophecy, the place of the prophets in the life of Israel, the relation of prophecy to history, Messianic prophecy.

*Required of seniors. 1 hour, through the year.*

1. HEBREW POETRY. A study of the poetry of the English Old Testament, especially the Psalms, the Proverbs.

*Elective, open to juniors and seniors. 2 hours, first semester.*

2. HISTORICAL GEOGRAPHY OF PALESTINE. The land in its physical aspects, the place of Syria in history, the interpretation of the Bible by geographical study, detailed survey of the country.

*Elective, open to juniors and seniors. 2 hours, one semester.*

3. BIBLICAL ARCHAEOLOGY. Studies of the results of modern exploration in Biblical lands.

*Elective, open to juniors and seniors. 2 hours, one semester.*

## MATHEMATICS

MR. MARTIN

D-1. SOLID GEOMETRY. Theorems and constructions as given in Durell's *Solid Geometry*. Solution of numerous original exercises, including loci problems. Application to the mensuration of surfaces and solids.

*Required of freshmen. 3 hours, first semester.*

D-2. PLANE AND SPHERICAL TRIGONOMETRY. Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles. Proofs of principal formulas, in particular for the sine, cosine and tangent of the sum and difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines; the transformation of trigonometric expressions by means of these formulas. Solution of trigonometric equations.

Theory and use of logarithms. Solution of right, oblique and spherical triangles and practical applications.

*Required of freshmen. 3 hours, second semester.*

1. HIGHER ALGEBRA. Permutations and combination. Complex numbers with graphical representation of sums and differences. Determinants including the solution of linear equations. Numerical equations of higher degree and the theory of equations, with graphical methods, including Descartes' rule of signs and Horner's method.

*Students intending to pursue the courses in higher mathematics are required to elect this course. Prerequisite: Course D-2, or may be taken paralleled with Course D-2. 2 hours, one semester.*

2. HISTORY OF MATHEMATICS. This course is offered in the belief that it is essential to a thorough understanding of elementary mathematics. It treats of the development of mathematics from the earliest known times to the invention of analytic geometry by Descartes in 1637. The subjects considered are number systems, numerals, arithmetic, algebra and geometry.

*Prerequisite: Course D-2. 2 hours, one semester.*

3-4. ANALYTIC GEOMETRY, PLANE AND SOLID. Tanner and Allen's *Analytical Geometry* is used as a text-book.

*Prerequisite: Course D-2. 3 hours, through the year.*

5-6. DIFFERENTIAL AND INTEGRAL CALCULUS.

*Prerequisite: Course 3-4. 3 hours, through the year.*

7. HISTORY OF HIGHER MATHEMATICS.

*Prerequisite: Course 5-6, or may be taken parallel with Course 5-6. 2 hours, one semester.*

8. THE TEACHING OF ELEMENTARY MATHEMATICS. This course is intended for those who wish to teach mathematics in high schools.

Young's *Teaching of Mathematics* is used as a text-book. Instruction is given in the explanation of Mathematical processes to elementary classes while opportunity is afforded to observe teaching in the city high schools.

*Prerequisite: Course 5-6, or may be taken parallel with Course 5-6. 2 hours, one semester.*

## ASTROMOMY

MR. MARTIN

1. ASTRONOMY, descriptive and historical. Elementary facts and principles with mathematical exercises. Location of principal constellations with field and laboratory work.

The College owns a good 4¼ inch refracting telescope, which is at the disposal of the student for observing the sun, moon, stars and nebulae.

*Prerequisite: Mathematics, Courses D-1 and D-2. 2 hours, one semester.*

## PHYSICS

MISS HOLCOMB

1-2. GENERAL EXPERIMENTAL PHYSICS. Mechanics, sound, heat, light, electricity and magnetism. Illustrated lectures, recitations and problems. 3 hours a week; laboratory work two 2 hour periods a week. Text-book: Carhart's *College Physics*.

*Elective. 3 hours, through the year.*

This course or courses 1 and 2 in chemistry required of students in the freshman or sophomore year.

3. SOUND. The physical theory of sound, musical instruments, and the acoustics of buildings. A lecture and recitation course. No laboratory work. This course is especially for students in music and expression.

*1 hour, first semester.*



4. LIGHT. Recitations, supplemented by illustrated lectures and library study. Text-book: Edser's *Light for Students*.

*Prerequisite: Course 1-2. 2 or 3 hours, first semester, alternating with Course 7.*

5. LIGHT. Laboratory work and special topics planned especially for students who expect to teach physics.

*Open only to those who elect Course 4. One 2 hour period a week, first semester.*

6. HEAT. Recitations, supplemented by experimental demonstrations and library study. Text-book: Edser's *Heat for Advanced Students*.

*Prerequisite: Course 1-2. 2 hours, second semester, alternate years.*

7. ELECTRICITY AND MAGNETISM. The course includes a study of the practical applications of electricity.

*Prerequisite: Course 1-2. 2 hours, first semester, alternating with Course 4.*

8. ELECTRICITY AND MAGNETISM. Laboratory work; the setting up of apparatus in wireless telegraphy and similar experiments.

*Open only to those who elect Course 7. One 2 hour period, one semester.*

## CHEMISTRY

MISS BUTTERFIELD

1. GENERAL INORGANIC CHEMISTRY. Lectures and recitations on the history, occurrence, preparation, properties and uses of the more important elements and their compounds. In the laboratory the student prepares and transforms the chief substances studied. A few simple quantitative experiments are performed. Text-book: Stoddard's *Introduction to General Chemistry*.

3 hours, first semester. Laboratory work, 4 hours weekly.

This course, or course 1-2 in physics, required of students in the freshman or sophomore year.

2. QUALITATIVE ANALYSIS. Lectures, recitations, laboratory work. Ample practice in identifying unknown substances is given to each student. The text-book used is Stoddard's *Qualitative Analysis*.

*Elective. Prerequisite: Course 1. 3 hours, second semester.*

This course must be taken by those offering Course 1 as required science.

3. ORGANIC CHEMISTRY. Lectures and recitations upon typical organic compounds, their relations and transformations. Text-books: Remsen, and Perkin and Kipping.

*Elective. Prerequisite: Course 1. 2 hours, first semester.*

4. ORGANIC CHEMISTRY. Laboratory practice. Simple organic compounds are studied and the synthesis of more complex substances from these is taken up. In every preparation attention is given to quantitative results. Text-books used are Orndorff's *Manual of Organic Chemistry* and Gattermann's *Practical Methods of Organic Chemistry*. Students electing Course 3 are urged to take this course if possible.

*1 or 2 hours, first semester. Prerequisite: Courses 1, 2 and 3.*

5. QUANTITATIVE ANALYSIS. Laboratory work. A few lectures on laboratory methods are given.

*2 hours, second semester. Prerequisite: Course 1.*

6-7. LECTURES ON THEORETICAL CHEMISTRY. In this course a systematic study is made of the atomic, kinetic and electrolytic theories of the constitution of matter.

*Elective. Prerequisite: Courses 1, 2, 3 and 4. 1 hour, through the year.*

8. ADVANCED ORGANIC CHEMISTRY. In this course two hours a week are devoted to lectures on methods in organic

chemistry. Each student is assigned a problem in laboratory which she solves according to methods used in original research. An organic compound whose composition is unknown is examined and its empirical and structural formulas are determined. This determination involves the application of the most important laboratory methods used in organic research, such as combustions, molecular weight determination, etc. It is carried on independently by the student. After the correct solution of this problem, opportunity is offered the student of starting a problem in original work. The course is especially qualified to fit students for independent research and has that end in view.

*Prerequisite: Courses 1, 2, 3, 4, 5.*

9-10. PHYSICAL CHEMISTRY. Lectures and recitations.

*Prerequisite: Courses 1 and 2. 1 hour, through the year.*

11. SANITARY CHEMISTRY. Air, water and food analysis. A study of the application of chemistry to problems of public health.

*Prerequisite: Courses 1, 2, 3, 4 and 5.*

12. TEACHING OF CHEMISTRY. This course is designed for those intending to teach chemistry or for those wishing a comprehensive review of general chemistry with practice in handling special apparatus. The student must be able to perform difficult experiments in demonstration and to take charge of some of the laboratory work in Courses 1 and 2.

*1 or 2 hours. Open to seniors and others by special permission only.*

## BIOLOGY

MISS BUTTERFIELD

1-2. GENERAL BIOLOGY. Two lectures and one recitation per week, supplemented by two laboratory periods of two hours each. The course has been arranged especially for those who desire a general knowledge of biology as part of a liberal edu-

cation as well as for those who are preparing for advanced work. Field trips will be taken.

*Elective, open to all classes. 3 hours, through the year.*

3-4. GENERAL BOTANY. Two lectures and one recitation per week, supplemented by two laboratory periods of two hours each. This course treats of plant life from the algæ to the phanerogams inclusive. The structure and development of certain plants are studied from seed germination to fruit formation. Students are trained to recognize the common flowers from their botanical structure and values.

*Elective, open to all classes. 3 hours, through the year.*

5. SYSTEMATIC INVERTEBRATE ZOOLOGY. This course consists of lectures and laboratory work on Protozoa, Porifera, Cœlenterata, Vermes, Echinodermata, Mollusca and Arthropoda.

*Elective, open to all students. 3 hours, first semester, (2 lectures, 1 recitation, 2 laboratory periods.)*

6. VERTEBRATE ZOOLOGY. The student becomes familiar with a series of types of vertebrates, studying the comparative anatomy and progressive modifications of a fish, snake, frog, bird and mammal.

*Elective. Prerequisite: Course 5. 3 hours, second semester, (2 lectures, 1 recitation, 2 laboratory periods.)*

7. ADVANCED VERTEBRATE ZOOLOGY AND PHYSIOLOGY. In this course the anatomy and physiology of a typical mammal are studied. The histology of the various tissues is worked out and the physiology of muscles and nerves is investigated.

*Elective. Prerequisite: Course 1-2. 2 hours, first semester. Laboratory work 4 hours weekly.*

8. STRUCTURE OF CELL AND PROTOPLASM. This course includes a study of numerous protozoa; the structure of a cell; development phenomena; cell division, spermatogenesis; oögenesis.

*Elective. 2 hours, second semester. Laboratory work, 4 hours weekly.*

9-10. THEORETICAL BIOLOGY. The lectures deal largely with the history of the development of modern biology. The works of Lamark, Darwin, Weismann, and De Vries are discussed in connection with the theory of evolution.

*Elective. 1 hour, through the year.*

11-12. EXPERIMENTAL MORPHOLOGY. The object of the course is to familiarize the student with some of the more important problems of experimental morphology and with the methods of dealing with them. The work consists of lectures and laboratory experiments.

*Elective. 2 hours, through the year.*

13-14. HISTOLOGY AND MICROSCOPICAL TECHNIQUE. The work consists of laboratory practice in the preparation of material for microscopical study. This course is intended for those who expect to teach or do advanced work in biology.

*Elective, open to students by special permission. 2 hours laboratory work, through the year.*

*Offered only if a sufficient number of students take it to warrant the course being given.*

15. DENDROLOGY. A study of our common trees. The course will consist of one out-of-door trip per week of about an hour and a half together with independent observation on the part of the student. About ninety trees will be studied in their summer and winter aspects.

*1 hour, first semester.*

16. ORNITHOLOGY. Lectures on the habits, homes coloration, etcetera, of birds. There will be a few field trips in the spring.

*1 hour, second semester.*

17. BOTANY. A course in botany for those who have offered botany for entrance, or who have completed *Biology 1-2*.

*2 hours, second semester.*

## EXPRESSION

MISS KERST

The aim of this department is to foster in the student a larger appreciation of the truth and beauty of great prose and verse, and at the same time to develop the power of expressing to others the results of such literary work. Expressional study of the best kind cultivates beauty of speech, trains the intellect, educates the emotions and puts the student into full command of the forces of body and mind.

Elective courses are offered for all college classes, and private work may be arranged for by consultation with the instructor. Persons not registered for courses in other departments may become special students in Expression.

Students' recitals are occasionally given.

1-2. GENERAL PRINCIPLES OF VOCAL EXPRESSION. Principles of articulation. Oral gymnastics for distinct, firm, fluent articulation. Physiology of vocal organs with exercises for developing the voice and improving its quality, also for correct breathing. Selections are analyzed and students are assigned definite work for presentation before the class.

*Elective, open to freshmen. 1 hour, through the year.*

3-4. VOCAL TECHNIQUE. The sonant properties of speech. Emphasis, inflection, phrasing, quality, force, pitch, time, pause, rhythm.

This is distinctly a practice course. Platform recitations are made by the student for criticism.

*Elective, open to sophomores. 1 hour, through the year.*

5-6. INTERPRETATIVE READING. Shakespere, Browning, Tennyson.

*Elective, open to juniors. 1 hour, through the year.*

7-8. PRINCIPLES OF VOCAL EXPRESSION AND LITERARY INTERPRETATION. Studies in paraphrasing; types of utterance; musical properties of speech; vocal technique; the relation of literature to recitation.



*Elective, open to seniors. 1 hour, through the year.*

9-10. DRAMATIC APPRECIATION. A study of the history of dramatic art and the theory of dramatic construction. Analysis of plays of the different periods in the history of the drama.

*Elective, open to all college students. 1 hour, through the year.*

## PHYSICAL TRAINING

MISS KATHAN

1-2. GYMNASTICS, including marching, corrective exercises, æsthetic dancing, Indian clubs, wands and games. Outdoor work on the athletic field in the spring and fall.

*Required of freshman. 1 hour, through the year.*

3-4. AESTHETIC DANCING, OUTDOOR GAMES.

*Required of sophomores. 1 hour, through the year.*

5-6. AESTHETIC AND DRAMATIC DANCING. A study of the interpretation of music through dancing. Original work required.

*Elective, open to juniors, seniors and specials who have had previous training. 1 hour, through the year.*

7-8. PLAYS AND GAMES. A study of education through play, with practical work in teaching children's games. This course is recommended to those who expect to teach children.

*1 hour, through the year.*

9-10. APPLIED HYGIENE. Lectures on personal hygiene, domestic and public problems of sanitation and diet, including a short course in *First Aid to the Injured*.

*General clective. 1 hour, through the year.*

## HISTORY AND THEORY OF MUSIC

MR. WHITMER

1-2. HARMONY. Study of chords in both modes. Ear training, analysis, harmonization. Immediate application of knowledge to composition of pieces in simple forms.

*1 hour, through the year.*

3-4. COUNTERPOINT AND COMPOSITION. Early and modern contrapuntal methods contrasted. Detailed study of melodic and rhythmic construction, with practical application to composition.

*Open to students who have taken Course 1-2. 1 hour, through the year.*

5-6. DOUBLE COUNTERPOINT, CANON AND FUGUE. Analysis and composition.

*Open to students who have taken Courses 1-2 and 3-4. 1 hour, through the year.*

7-8. MUSICAL FORMS AND FREE COMPOSITION. Analysis of both normal and radical musical formations with immediate practice. Development of freedom in use of material.

*Prerequisite: Courses 1-2 and 3-4. 1 hour, through the year.*

9-10. ORCHESTRATION. Detailed theoretical and practical study of orchestral instruments, their individual characteristics and their relation to the score. Score reading.

*Prerequisite: Courses 1-2, 3-4 and 5-6. 1 hour, through the year.*

11-12. HISTORY OF MUSIC. Study of the great works, composers and virtuosi. Development of notation. Comparative study of musical periods.

*Open to students who have taken or are taking Course 1-2. 1 hour, through the year.*

13-14. APPRECIATION OF MUSIC. A free and untechnical study of men, masterpieces and criticism. Brief programs are given in connection with the lectures.

*Open to all students. 1 hour, through the year.*

The College believes in the cultural power of music and in its value in the higher education of women. It expects to enlarge the courses and to keep music on the high intellectual plane which is increasingly accorded to it by colleges.

Courses in the history and theory of music are counted toward the baccalureate degree. Practice courses may be so counted if combined with a proper amount of history and theory.

Information concerning courses in all departments of music may be found on pages 71 to 85.

## LECTURES

The following list comprises the lectures delivered to students as part of the academic work. They are given at a morning lecture hour and attendance is required.

1911-1912

Miss Alice Skilton . . . A course of lectures on Wagner's operas

1. Lohengrin
2. Tannhauser
3. Parzifal
4. Das Rheingold
5. Siegfried
6. Tristan und Isolde

Miss Alice Dacre Butterfield

Some Recent Theories on the Constitution of Matter

Dr. Boggs

A Discussion of Electricity Including X-ray Demonstration

Miss Violet Louise Holcomb . . . . . Aeronautics

Physical Basis of Music

Mr. George Putman . . . . . Party Government in England

Mr. William Martin

Four lectures on Parliamentary Law and Practice

Mrs. Lucia Ames Meade . . . . . The Peace Movement

Dr. W. H. Spence . . . . . The Lyric Poetry of Robert Burns

Dr. Henry D. Lindsay . . . . . Politics

Miss Lucia Becker . . . . . Our Government

Mr. Wallace . . . . . The Near East

Mr. George P. Early . . . . . Salt and Advice

## RELIGIOUS AND SOCIAL LIFE

The College is thoroughly Christian in spirit and influence, but undenominational in its management and instruction. Students

are expected to be present at daily prayers in the Chapel, and resident students to be regular attendants at church on Sunday mornings and at the Sunday Vesper services in Berry Hall. The Young Women's Christian Association maintains a mid-week prayer meeting and weekly Bible classes; and it contributes to mission work at home and abroad. Systematic Bible study is one of the college requirements and four hours of such work are prescribed along the lines of literature and history.

The daily life of the residence halls is regulated by student government, under the direction of the house president and executive committee, who are elected by the students, subject to the approval of the Dean.

The College emphasizes religious and social life, for it believes both are essential parts of a liberal education. Arrangements for the comfort and well-being of resident students are made by the Dean and the social plans of all classes are submitted to her before action is taken. General receptions for students and their friends are held at mid-year and in connection with the Commencement exercises. Smaller gatherings of faculty and students occur at intervals throughout the year. The traditional College celebrations are those of Hallowe'en, Christmas, Saint Valentine's Day, and May Day, participated in by the student body. The separate classes take the initiative in more formal entertaining at suitable times. The Young Women's Christian Association gives a reception to new students at the beginning of the year, and conducts various benefits during the year for the support of its benevolent and missionary work.

### **STUDENTS' CLUBS AND ASSOCIATIONS**

The Omega Society has a membership chosen with respect to scholarship and literary ability. Its work is the promotion of an interest in literature and the providing of opportunities for practice in the art of expression. The Society holds occasional open meetings for the presentation of special programs.

The Young Women's Christian Association holds weekly prayer meetings and monthly missionary meetings. It has

organized Bible classes. The Association maintains a scholarship in a missionary school in Japan, and it is responsible for the equipment of a room in the Young Women's Christian Association Building in Pittsburgh. Delegates are sent to the annual conventions and an active part is taken in all work looking toward the strengthening of the religious forces of the institution.

The Athletic Association is a wide-awake organization which affords the students of the College an opportunity to play basketball, tennis and all out-door games. It is the aim of the Association to foster the growth of college spirit and also to help with the running expenses of the tennis court and the basketball teams. Through the efforts of the members some very valuable apparatus has been purchased for the gymnasium.

The Dramatic Club has for its work the critical study of pieces of dramatic literature as a means of personal culture for its members, and the occasional presentation of carefully selected plays. The principal event of the club year is the production of Senior Dramatics at Commencement time. In 1911 the play presented was *As You Like It*.

The Glee Club furnishes an excellent opportunity for training in voice. The club responds to many calls for its service at college affairs and occasionally in the city, and gives an annual concert. It has an enthusiastic membership and its work is much valued in the college life.

The Mandolin Club is open to students who play the mandolin, guitar or violin. An annual concert is given in connection with the Glee Club and music furnished, not only for college functions, but for entertainments given in the city.

## SCHOLARSHIPS AND PRIZES

Two scholarships are open to students of ability who expect to pursue regular courses of study, but who need financial aid in meeting the necessary expenses of a college education.

1. THE HELEN E. PELLETREAU SCHOLARSHIP. A fund has been raised by the Alumnae to establish a scholarship in honor of Miss Helen E. Pelletreau, for many years the able and beloved

President of the College. This fund has not yet been made up to the full amount necessary, and contributions to it are earnestly solicited. They should be sent to Miss Eleanor J. Stevenson, 3501 Fifth Avenue, Pittsburgh.

2. THE MARY HAWES NEVIN SCHOLARSHIP. To fulfill a wish expressed by the late Mary Hawes Nevin, an alumna of the Class of 1896, her family has given the sum of \$6,000 to establish a scholarship to bear her name, and thus perpetuate the memory of her beautiful life and her interest in young women ambitious for the advantage of a college course.

The Helen E. Pelletreau Scholarship is awarded by the Scholarship Committee of the Alumnae Association, the Mary Hawes Nevin Scholarship, by Mrs. John I. Nevin. These scholarships are held for one year, but may be renewed upon application.

## CORRESPONDENCE

Business inquiries and letters concerning the entrance of students should be addressed to Pennsylvania College for Women, Pittsburgh, Pa. Personal letters or particular communications of parents in regard to their daughters should be sent to the President, Rev. Henry D. Lindsay, D.D., or to the Dean, Miss Cora Helen Coolidge.

## TEACHERS' REGISTRY

The College is deeply interested in the welfare of its Alumnae and is willing to coöperate actively with those who desire to secure teaching positions. A registry will be kept for the purpose and eligible candidates will be recommended to schools desiring to fill vacancies in their faculty lists.

## FEES

	PER YEAR
Tuition . . . . .	\$125.00
Room rent, including light and heat . . . . .	100.00
Table board . . . . .	175.00



Physical Training—

Private lessons, twice a week . . . . .	\$50.00
In classes of four, twice a week . . . . .	25.00

Expression—

Private lessons, twice a week . . . . .	60.00-100.00
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Laboratory—

Biology 1-2 Physics 1-2 or Chemistry 1 and 2 . . . . .	10.00
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Advanced science course fee in proportion to material used.

Tutoring, per hour . . . . .	1.00
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Private Examination . . . . .	2.00
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Diploma—

Bachelor of Arts . . . . .	5.00
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Master of Arts . . . . .	10.00
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Laundry, plain pieces, per dozen . . . . .	.50
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Luncheon, for day students . . . . .	.25
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Boarding during vacation, per week . . . . .	7.00
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## REGULATIONS FOR PAYMENT

Tuition will be remitted to resident students who are daughters of ministers. A reduction of \$25.00 will be made to day students who are daughters of ministers or of teachers.

All bills for boarding, tuition and extra are due, one-half at the beginning of the college year and the remainder on February 1. Checks should be made payable to Pennsylvania College for Women.

All arrangements for the study of music are made for the entire term. Lessons cannot be discontinued except for valid reasons and due notice must be given. No deduction will be made for lessons lost by the student.

As engagements with instructors and other provisions for the education of students are made by the College for the entire year in advance, *no deduction can be made in the charge for tuition for either resident or day students.*

No degrees will be conferred unless all bills due to the College by the candidate have been paid.

## APPLICATION FOR ROOMS

All applications will be registered and rooms not engaged by former students will be assigned according to the date of application. There are a few double rooms, but the bedrooms are generally arranged in suites of two single rooms. Any information concerning the rooms will be given upon application to the Dean.

Resident students are received for *the year only*, or so much of it as remains at the time of entrance. Parents or guardians will be held responsible for full payment for resident students from *the date at which they had engaged to enter their daughters or wards until the close of the year in June, and no deduction will be made in bills because of absence or premature withdrawal except in case of serious and protracted illness, when the loss for board and room will be equally shared.*

All unnecessary wear of carpets, furniture, etc., is charged to the students occupying the room.

## DEGREES CONFERRED IN 1911

### DOCTOR OF LETTERS

Miss Pelletreau . . . . . Brooklyn, N. Y.

### BACHELOR OF ARTS

Blakeslee, Clarissa Reta . . . . . Manorville  
 Carpenter, Sara Reynolds . . . . . Wilkinsburg  
 Crowe, Mable Florence . . . . . Pittsburgh  
 Darrah, Alice Lillian . . . . . Pittsburgh  
 Diescher, Irma Jessie . . . . . Pittsburgh  
 Gray, Frances . . . . . Pittsburgh  
 Greene, Margaret . . . . . Hoosick Falls, N. Y.  
 Hamilton, Minerva . . . . . Edgewood  
 McClymonds, Belle Vance . . . . . Wilkinsburg  
 McCullough, Margaret May . . . . . Wilkinsburg  
 McQuiston, Rachel Dalzell . . . . . Pittsburgh  
 Medley, Edith Mary . . . . . Pittsburgh  
 Reitz, Edna Marie . . . . . Oakmont  
 Supplee, Rosalie . . . . . Wilkinsburg  
 Trussell, Elma Marie . . . . . Carrick  
 Wayne, Gertrude Jeannette . . . . . Pittsburgh  
 Wilson, Florence Kerr . . . . . Wilkinsburg

## STUDENTS IN 1911-1912.

### SENIORS

Bickel, Florence Emma . . . . . Pittsburgh  
 Cameron, Frances . . . . . Edgewood Park  
 Chaddock, Edith Melvina . . . . . Pittsburgh  
 Davis, Eleanor . . . . . Oakmont  
 Davies, Elizabeth Frances . . . . . Munhall  
 Estep, Elvira . . . . . Pittsburgh  
 Gray, Mary Rariden . . . . . Pittsburgh  
 Grooms, Helen Herd . . . . . Pittsburgh  
 Hardy, Mary Rebecca . . . . . Pittsburgh  
 Hickson, Hazel Fay . . . . . Butler  
 Keen, Mary Catherine . . . . . Baltimore, Md.  
 Kim, Martha Amanda . . . . . Pittsburgh  
 Lindsay, Lillie Arndt . . . . . Pittsburgh  
 McHenry, Lilian Belle . . . . . Washington  
 O'Neill, Esther Amelia . . . . . Altoona  
 Pierce, Beulah Vera . . . . . Pittsburgh

Sands, Martha Josephine . . . . .	Pittsburgh
Sharp, Daisy Cochrane . . . . .	Pittsburgh
Shutt, Maude Etta . . . . .	Warren
Spence, Carrie Cosette . . . . .	Uniontown
Stahlman, Calla Loree . . . . .	Vandergrift

## JUNIORS

Atkinson, Nellie Faye . . . . .	Wilkinsburg
Baker, Lucile Atkinson . . . . .	Wilkinsburg
Blair, Helen Eliza . . . . .	Pittsburgh
Cameron, Christine Etholine . . . . .	Edgewood Park
Clark, Laila Lenore . . . . .	Pittsburgh
Colestock, Claire . . . . .	Indianapolis, Ind.
Craig, Helen Marie . . . . .	Wilkinsburg
Fletcher, Louise Emily . . . . .	Jamestown, N. Y.
Geiselhart, Emma Henrietta . . . . .	Pittsburgh
Gray, Jeanne MacLean . . . . .	Pittsburgh
Keys, Florence Rebecca . . . . .	Clarksville
Kingsbacker, Florence . . . . .	Pittsburgh
Lambie, Marguerite McCandless . . . . .	Wilkinsburg
Layman, Lucy Abbott . . . . .	Pittsburgh
McCague, Elizabeth Snowden . . . . .	Sewickley
Minor, Margaret . . . . .	Pittsburgh
Rosenbloom, Esther Gertrude . . . . .	North Braddock
Titzell, Marguerite Gates . . . . .	Kittanning
Wayne, Sylvia . . . . .	Pittsburgh
Weihe, Elsie Naomi . . . . .	Connellsville
Wilson, Grace McMasters . . . . .	Pittsburgh
Young, Martha Elizabeth . . . . .	Vandergrift

## SOPHOMORES

Boggs, Marjorie Annette . . . . .	Pittsburgh
Brown, Margaret Hardy . . . . .	Pittsburgh
Brownlee, Janet Lowrie . . . . .	Washington
Burt, Pauline Charlotte . . . . .	Crafton
Colebrook, Adeline Arnold . . . . .	Pittsburgh
Goeddel, Gertrude Elizabeth . . . . .	Pittsburgh
Knight, Phoebe . . . . .	Clairton
Kochersperg, Josette . . . . .	Jamestown, N. Y.
McBurney, Mary Marguerite . . . . .	Canonsburg
McWilliams, Mildred Margaret . . . . .	Pittsburgh
Maiden, Ada Mildred . . . . .	West Homestead
Plympton, Giulietta Adelinda . . . . .	Pittsburgh

Rider, Hazel . . . . .	Uniontown
Rutherford, Helen Marguerite . . . . .	Washington
Sander, Helen Marguerite . . . . .	Pittsburgh
Savage, Mary Evans . . . . .	Homestead
Stewart, Marjory . . . . .	Pittsburgh
Williams, Ethel Mae . . . . .	Glassport

### FRESHMEN

Atkinson, Merle . . . . .	Pittsburgh
Burleigh, Lorna . . . . .	Pittsburgh
Cameron, Elizabeth . . . . .	Edgwood Park
Campbell, Janet . . . . .	Pittsburgh
Dalzell, Elizabeth . . . . .	Ben Avon
Davies, Grace . . . . .	Pittsburgh
Estep, Mary Hall . . . . .	Pittsburgh
Gowans, Marjorie Dortha . . . . .	Pittsburgh
Hansen, Florence . . . . .	Pittsburgh
Heinsling, Mary Elizabeth . . . . .	Altoona
Hugus, Anna Louise . . . . .	Wilkinsburg
Jeffrey, Mary Ruth . . . . .	Pittsburgh
Johnston, Jane . . . . .	California
Kimball, Louise . . . . .	Pittsburgh
Kindl, Louise . . . . .	Pittsburgh
Losa, Olga Emilie . . . . .	Coraopolis
Morris, Virginia Iris . . . . .	Swissvale
Ritts, Hazel . . . . .	Apollo
Spencer, Mary Wilson . . . . .	Pittsburgh
Wright, Hester . . . . .	Pittsburgh

### STUDENTS IN SPECIAL COURSES

Alston, Eleanor Swan . . . . .	Pittsburgh
Bates, E. E. . . . .	Palo Alto, Cal.
Baughman, Beulah . . . . .	Pittsburgh
Blackburn, Ruth . . . . .	New Kensington
Brackenridge, Cornelia . . . . .	Natrona
Brown, Alice . . . . .	Pittsburgh
Campbell, Bessie . . . . .	Pittsburgh
Chalmers, Helen . . . . .	Wilkinsburg
Collins, Anna . . . . .	Scottdale
Cooper, Mildred . . . . .	Unity Station
Crowe, Elizabeth . . . . .	Pittsburgh
Dalzell, Katherine . . . . .	Ben Avon
Donnell, Elizabeth . . . . .	Pittsburgh

Early, Cora P. . . . .	Pittsburgh
Gillespie, Cornelia . . . . .	Cadiz, Ohio.
Grant, Bertha . . . . .	East Liverpool, O.
Holliday, Margaret . . . . .	Wilksburg
Homer, Susie Iona . . . . .	Pittsburgh
Hughes, Jean . . . . .	Latrobe
Humbert, Elsie Marguerite . . . . .	Connellsville
Jordan, Marguerite Irene . . . . .	Woodlawn
Knote, Evelyn . . . . .	Wheeling, W. Va.
Kimball, Helen . . . . .	Pittsburgh
Kroenert, Martha . . . . .	Pittsburgh
Latham, Margaret . . . . .	Pittsburgh
Maier, Alice . . . . .	Latrobe
Marshall, Sara Herron . . . . .	Pittsburgh
Messner, Miriam . . . . .	Warren
Morse, Lucile . . . . .	Pittsburgh
McCaffrey, Bessie . . . . .	Pittsburgh
McCreary, Alice E. . . . .	Pittsburgh
McGrew, Rosemma . . . . .	Crafton
Norris, Lois C. . . . .	Pittsburgh
Orr, Elizabeth . . . . .	Apollo
Orr, Louise . . . . .	Woodlawn
Palmer, Jessie McVean . . . . .	Johnsonburg
Reid, Eva A. . . . .	Crafton
Roberts, Helen . . . . .	Pittsburgh
Rosenblum, Anne . . . . .	Toledo, Ohio.
Rothschild, Florence Bessie . . . . .	Pittsburgh
Slocum, Laura Rose . . . . .	Pittsburgh
Smith, Ionia Fairchild . . . . .	Clarksburg, W. Va.
Steiner, Elsa Mary . . . . .	Pittsburgh
Stuckslager, Helen Beam . . . . .	McKeesport
Taggart, Mabel . . . . .	Pittsburgh
Townsend, Louise . . . . .	Apollo
Van Osten, Gertrude . . . . .	Pittsburgh
Vogele, Mildred I. . . . .	Pittsburgh
Watkins, Mary Anna . . . . .	Parnassus
Welling, Margherita . . . . .	Pittsburgh
Weston, Mildred . . . . .	Gallitzin



## ALUMNAE ASSOCIATION

The Association has its headquarters at the College and holds its annual meeting in the Assembly Hall on the Friday preceding Commencement day. It publishes annually the *Alumnæ Recorder*, containing a list of graduates, corrected by the latest information obtainable, and many items of interest concerning *Alumnæ* and former students.

The officers of the Association for the year 1911-1912 are:

President—Miss Mary Bruce, '01.

Vice President—Mrs. George Wilner Martin, '92.

Secretary—Miss Hilda Sadler, '03.

Treasurer—Miss Elizabeth McCague, '98.

The Association is full of sympathy with college plans and purposes and manifests its feeling in very practical ways. Two clubs of recent *Alumnæ* have been organized, members of the classes between 1890 and 1900 forming Decade Club I, and graduates from 1900 on constituting Decade Club II. The *Alumnæ* Lecture Committee has again undertaken to raise and administer a fund by means of which lectures may be given in the Assembly Hall for the benefit of undergraduates and *Alumnæ*.

The special work of the *Alumnæ* Association the past year has been the completion of the Dormitory Furnishing Fund and it is most gratifying to report success in the undertaking.

**SCHOOL OF SOCIAL SERVICE**



## COURSES IN SOCIAL SERVICE

**S**PECIAL courses offering training for social workers are open to students who may elect them in the regular courses leading to the degree of Bachelor of Arts, or to well-prepared special students.

The demand for social workers of college education is to-day greater than the supply. So-called "Social work," to be effective, must be done by workers of trained mind, who have knowledge of many subjects; and this training and knowledge cannot be acquired without great difficulty outside of a college. By means of such special training as is offered in these courses, supplementing the study of the arts and the social sciences, the student can make the work of the college curriculum available for practical use in social service. In its special courses the College recognizes the value of all work which aims at the betterment of society, the appeal which such work makes to many educated women, and the opportunity for preparing for it which college courses afford.

The aim of the social service course is to give special education to three classes of workers: first, those who would enter paid work; second, those who would give intelligent service as volunteers; third, those who seek to learn, from the lessons of past experience and from thoughtful practice, the best methods for use in the social activities of home and church.

The complete course covers two years. The program of the first year is planned to give a general outlook over the field of social endeavor. To this end weekly visits of observation are made to institutions, both public and private, representing different kinds of welfare work. In the classroom the causes of poverty, the history of philanthropy, and the principles underlying the various philanthropic agencies visited, are studied. The program of the second year is planned to give detailed information and practice. The student goes weekly to a philanthropic agency and works under the direction of one of Pittsburgh's experienced social workers. In the classroom methods,—both past and present—

of caring for the needy are studied. A third year is arranged for those who, having begun the study in the sophomore year, decide to enter social work professionally and feel their need of additional study and practice.

In the regular courses of the College, such studies as biology, psychology, sociology, economics, ethics, history, are recommended as necessary to the student who would make social work her profession. Modern languages, music, and physical training are valuable aids in practical work. In this connection attention is called to a class in *Education through Games and Play*, which is planned with reference to the needs of students training for club work.

Pittsburgh, with its great industries and its diversified philanthropies, is an unusual field for observation, investigation and practical work. Many institutions and agencies cooperate with the college in these courses, and many experienced social workers give individual cooperation in the form of lectures and instructive talks at the College or at the places where they work.

Special students are admitted to social service courses. Applicants for admission must be eighteen years old. They must have a high school diploma or its equivalent and satisfactory references to show that they have the character and purpose necessary to social work.

A certificate is given to students completing this course. It shows (1) the ground covered in the study of theory,—text-books and supplementary reading; (2) the actual practice work done by the student; (3) related subjects studied in other special courses or in the regular courses of the College; (4) the subject of a thesis based upon knowledge gained by the student in an original investigation.

For Social Service with related branches of study, the regular college tuition will be charged. The College dormitory is open to students in these courses.

## **MUSIC SCHOOL**





## **FACULTY**

HENRY D. LINDSAY, D.D., PRESIDENT

CORA HELEN COOLIDGE, DEAN

T. CARL WHITMER, DIRECTOR

JEAN W. FISHER  
Piano

ELISE GRAZIANI  
Singing



## MUSIC

Unusual opportunities are offered at Pennsylvania College for Women for the study of this branch of Art. The Music School connected with the College has been enlarged and reorganized; and all the instructors have had foreign study and training in the subjects placed under their direction. Sixteen pianos are available for daily practice; and a fine three-manual and pedal pipe organ, with electric blower, makes it possible for students to secure great advantages in the way of practical work. Instruction is given in Grand Organ, Piano, Voice, Violin, Cornet and other instruments, if desired.

Students taking college courses may have two hours of music counted toward a degree, on condition that one hour is theoretical instruction, with which one hour of practice may be combined by permission of the Faculty. A descriptive list of music courses which carry college credit will be found on pages 54-56.

A wide range of electives has also been provided for music students who are not candidates for the B. A. degree. Satisfactory completion of a definite amount of theoretical and practical work will entitle students to receive certificates in Piano, Organ, Singing and Musical Pedagogy. A detailed statement is given on pages 76-81 of the courses offered in the Music School, and of the requirements for a certificate in any one of the departments.

It has been the constant aim of the Director to have the teaching in every line of work based on correct comprehension of the laws of the mind. The system of piano study used is rational in every respect, and represents the highest form of musical pedagogy so far reached, leading the student to a positive technic, repose, and a wide range of expressive power. Our students are trained to think, to practice, to memorize, to play, to teach.

The organ work is upon the same intellectual plane as that of the piano. Sight reading, modulation, transposition and improvisation are studied methodically and problems of technic are systematized.

The development of the memory receives especial attention in order that the student may not only acquire a large repertoire but have it constantly available for use.

## THEORETICAL COURSES

1-2. HARMONY. Study of chords in both modes. Ear training, analysis, harmonization. Immediate application of knowledge to composition of pieces in simple forms.

*1 hour, through the year.*

3-4. COUNTERPOINT AND COMPOSITION. Early and modern contrapuntal methods contrasted. Detailed study of melodic and rhythmic construction with practical application to composition.

*Prerequisite: Course 1-2. 1 hour, through the year.*

5-6. DOUBLE COUNTERPOINT, CANON AND FUGUE. Analysis and composition.

*Prerequisite: Courses 1-2 and 3-4. 1 hour, through the year.*

7-8. MUSICAL FORMS AND FREE COMPOSITION. Analysis of both normal and radical musical formations with immediate practice. Development of freedom in use of material.

*Prerequisite: Courses 1-2 and 3-4. 1 hour, through the year.*

9-10. ORCHESTRATION. Detailed theoretical and practical study of orchestral instruments, their individual characteristics and their relation to the score. Score reading.

*Prerequisite: Courses 1-2, 3-4 and 5-6. 1 hour, through the year.*

11-12. HISTORY OF MUSIC. Study of the great works, composers and virtuosi. Development of notation. Comparative study of musical periods.

*Open to students who have taken, or are taking, Course 1-2.  
1 hour, through the year.*

13-14. APPRECIATION OF MUSIC. A free and untechnical study of men, masterpieces and criticism. Brief programs are given in connection with the lectures.

*Open to all students. 1 hour, through the year.*

### COURSES IN SINGING

1. ELEMENTARY COURSE. Lessons in deep breathing. Special work for placing the voice. Tone production and the uniting of registers. Exercises and Vocalises. Easy solos and part songs.

2. INTERMEDIATE COURSE. Studies in scales, arpeggios. Exercises in enunciation of English words. Vocalises in Italian. Songs by the best composers.

3. ADVANCED COURSE. Studies in phrasing and flexibility. Advanced vocalises. Studies in recitatives and easy arias from operas and oratorios.

4. CONCERT STUDY. Advanced work in all lines previously taken up. Recitatives and arias from Italian and German operas and standard oratorios. Special preparation for concert work. Studies in sacred music, both choral and solo.

5. SIGHT SINGING. Courses designed for all classes of students.

### REQUIREMENTS FOR CERTIFICATE IN PIANO

1. PRACTICAL. The presentation of a program at graduation which shall be the equivalent of the following:

- ( 1 ) Caprice (Alceste), *Gluck—Saint-Säens.*
- ( 2 ) Prelude and Fugue, *Bach.*
- ( 3 ) Nocturne in F sharp, *Chopin.*
- ( 4 ) Etude, Op. 25, No. 10, *Chopin.*
- ( 5 ) Adagio from Sonata, Op. 2, No. 2, *Beethoven.*

- ( 6 ) Gigue in A, *Bach-MacDowell*.
- ( 7 ) Polichinelle, *Rachmaninoff*.
- ( 8 ) Sonata, No. 4, *MacDowell*.
- ( 9 ) Jeux d' Eau, *Maurice Ravel*.
- (10) Etude III. (La Campanella,) *Paganini-Liszt*.

2. THEORETICAL. Harmony and Single Counterpoint in four parts, five species. An example of Counterpoint no less than forty-eight measures in four parts, mixed species, to be submitted a month before Commencement. A hymn tune over words to be selected by the Director. A composition in minuet form.

3. HISTORICAL. The course as outlined in Pratt's *History of Music* and the writing of two theses on selected phases of musical history.

4. COLLEGIATE. Seven hours of college work a year for two years, which may be chosen from Modern Languages, Rhetoric, English, History or a one semester course in Physics designed for music students which will be offered this year, at the discretion of the President and the Dean.

## REQUIREMENTS FOR CERTIFICATE IN ORGAN

1. PRACTICAL. The presentation of a program equivalent to the following:

- (1) Fantasie and Fugue in G minor, *J. S. Bach*.
- (2) Sonata in A minor, *Joseph Rheinberger*.
- (3) Overture to Midsummer Night's Dream, *Mendelssohn*.  
(Arranged by Samuel P. Warren.)
- (4) Sketch in F Sharp major, *T. Carl Whitmer*.  
(Published by Breitkopf & Hærtel.)
- (5) Improvisation on a given Theme.
- (6) Symphony, No. V, *Chas. Marie Widor*.
  - I. Allegro Vivace
  - II. Allegro Cantabile
  - III. Andantino quasi Allegretto
  - IV. Adagio
  - V. Toccata.

*Piano*—To organists the possession of a matured piano technic is absolutely indispensable.

2. THEORETICAL. The same as that prescribed for graduation in piano.

3. MECHANICAL. Ability to tune reed pipes and to repair all ordinary disorders of the organ.

4. COLLEGIATE. The same as that prescribed for graduation in piano.

### REQUIREMENTS FOR CERTIFICATE IN SINGING

#### 1. PRACTICAL.

a. The presentation of a program equivalent to the following:

With Verdure Clad . . . . .	Haydn
The First Violet . . . . .	Mendelssohn
My Sweet Repose . . . . .	Schubert
Moonlight . . . . .	Schumann
Sapphic Ode . . . . .	Brahms
The Gardener . . . . .	Wolf
Aria: One Fine Day (Madame Butterfly) . . . . .	*Puccini
The Princess . . . . .	Grieg
Gold Rolls Here Beneath Me . . . . .	Rubinstein
Were My Songs With Wings Provided . . . . .	Hahn
Four Songs, Op. 56 . . . . .	MacDowell
The Danza . . . . .	Chadwick

b. The course in piano up to grade four.

2. THEORETICAL. The same as that prescribed for graduation in piano.

3. HISTORICAL. The same as that prescribed for graduation in piano.

4. COLLEGIATE. The same as that prescribed for graduation in piano.

*Class work, choral and sight reading is required throughout the course.*



## TEACHERS' COURSE

As all conscientious teachers are anxious to acquire the best methods, the College has thought it worth while to offer a special and most helpful course for the benefit of those teachers who are so occupied with their own professional work as to be unable to register for the regular courses detailed above, and who especially wish to master principles and methods of teaching.

### REQUIREMENTS FOR THE TEACHERS' CERTIFICATE

1. PRACTICAL.

- a. Ability to play through fourth grade work in piano.
- b. A teaching experience of one and one-half years.

2. THEORETICAL. The same as that prescribed for graduation in piano.

3. COLLEGIATE. The same as that prescribed for graduation in piano.

*If voice or violin is elected as the major subject, piano work up to grade three will be accepted.*

### DEPARTMENT OF CHURCH MUSIC

The College is prepared to offer exceptional facilities for the study and practice of Church Music. Solo organ playing, accompanying of solos and anthems, and choir training form the work for this course.

### PITTSBURGH AND ITS MUSIC

Students have splendid opportunities to hear frequently the world's greatest artists in opera and concert, usually at special reduction in prices.

All these influences are of inestimable value in a musical education, so that a college outside of a great city can never compete with one within in the formative, cultural factors always at work.

## COURSES AND TERMS

	Per Semester one lesson weekly	two lessons weekly
Grand Organ . . . . .	\$40	\$75
<i>Three-manual pipe organ for lessons and practice, blown by electric motor.</i>		
Piano . . . . .	30-40	50-75
Voice . . . . .	30	50
Violin	30	50
Harp		
Guitar		
Mandolin		
Single lesson in Piano, Organ or Voice . . . . .		\$5.00
		Per Semester
Use of Organ, one period daily . . . . .		15
Use of Piano, one period daily . . . . .		10

## THEORETICAL COURSES

History of Music	}	Private Instruction at Piano rates. Class Instruction, for those not otherwise classified, \$15 per semester.
Harmony		
Counterpoint		
Canon		
Fugue		
Composition		
Orchestration		

## ORCHESTRA INSTRUMENTS

Students desiring to study any orchestral instrument will be provided with an instructor from the ranks of the Pittsburgh Orchestra.

All arrangements for the study of music are made for the entire term. Lessons cannot be discontinued except for valid reasons, and due notice must be given. No deduction will be made for lessons lost by the student.

## FREE ADVANTAGES

(Open to all Students)

Harmony Class, Ensemble Class, Choral Class, Sight-Singing Class, Class in Musical Appreciation, Glee Club, Mandolin Club, Concerts and Lectures.

## MUSIC STUDENTS

### PIANO

Alston, Eleanor Swan . . . . .	Pittsburgh
Booth, Mary . . . . .	Pittsburgh
Berkman, Bella . . . . .	Pittsburgh
Baughman, Beulah . . . . .	Pittsburgh
Blair, Helen . . . . .	Pittsburgh
Blackburn, Ruth . . . . .	New Kensington
Campbell, Janet . . . . .	Pittsburgh
Chalmers, Helen . . . . .	Wilkinsburg
Collins, Anna . . . . .	Scottdale
Cooper, Mildred . . . . .	Unity Station
Crowe, Elizabeth . . . . .	Pittsburgh
Dalzell, Katherine . . . . .	Ben Avon
Drill, Helen . . . . .	Oakmont
Eggers, Jeanne . . . . .	Pittsburgh
Falkenstein, Emily . . . . .	McKeesport
Gardner, Bernice . . . . .	Pittsburgh
Gerhold, Alma . . . . .	West Homestead
Grant, Bertha . . . . .	East Liverpool, O.
Haines, Helen . . . . .	Butler
Heinsling, Mary . . . . .	Altoona
Homer, Susie Iona . . . . .	Pittsburgh
Humbert, Elsie . . . . .	Connellsville
Hughes, Jean . . . . .	Latrobe
Jackson, Helen . . . . .	Pittsburgh
Jackson, Olive . . . . .	Pittsburgh
Jones, Katherine . . . . .	Pittsburgh
Jordan, Marguerite Irene . . . . .	Woodlawn
Kimball, Helen . . . . .	Pittsburgh
Knote, Evelyn . . . . .	Wheeling, W. Va.
Latham, Margaret . . . . .	Pittsburgh
Macalpine, Agnes . . . . .	Pittsburgh
Maier, Alice . . . . .	Latrobe
Messner, Miriam . . . . .	Warren
McFarland, Katherine . . . . .	Pittsburgh
McGrew, Rosemma . . . . .	Crafton
McWilliams, Mildred . . . . .	Pittsburgh
Norris, Lois C. . . . .	Pittsburgh
Oliphant, Lucille . . . . .	Oil City
Orr, Elizabeth . . . . .	Apollo
Orr, Louise . . . . .	Woodlawn

Palmer, Jessie McVean . . . . .	Johnsonburg
Reid, Eva A. . . . .	Crafton
Ritts, Hazel . . . . .	Apollo
Roberts, Helen . . . . .	Pittsburgh
Rosenblum, Anne . . . . .	Toledo, O.
Semmelrock, Edith . . . . .	Pittsburgh
Smith, Ionia Fairchild . . . . .	Clarksburg, W. Va.
Smith, Ruth . . . . .	Pittsburgh
Stahlman, Calla Loree . . . . .	Vandergrift
Stuckslager, Helen Beam . . . . .	McKeesport
Spencer, Mary . . . . .	Pittsburgh
Slocum, Laura . . . . .	Pittsburgh
Teeters, Helen . . . . .	Monongahela
Tillinghast, Marion . . . . .	McDonald
Townsend, Louise . . . . .	Apollo
Van Horn, Jennie . . . . .	Braddock
Vogele, Mildred . . . . .	Pittsburgh
Wahr, Hilda . . . . .	West Homestead
Weston, Mildred . . . . .	Gallitzin
Wertenbach, Marguerite . . . . .	McKeesport
Welling, Margherita . . . . .	Pittsburgh
Williams, Ethel Mae . . . . .	Glassport
Wright, Hester . . . . .	Pittsburgh
Young, Margaret . . . . .	Latrobe
Zahn, Ruth . . . . .	Crafton

## VOICE

Bickel, Florence Emma . . . . .	Pittsburgh
Blackburn, Ruth . . . . .	New Kensington
Brackenridge, Cornelia . . . . .	Natrona
Dalzell, Katherine . . . . .	Ben Avon
Daub, Lyda . . . . .	Crafton
Davison, Anna Craig . . . . .	Pittsburgh
Goeddel, Gertrude . . . . .	Pittsburgh
Grove, Helen . . . . .	Pittsburgh
Jordan, Marguerite Irene . . . . .	Woodlawn
Koenert, Martha . . . . .	Pittsburgh
Maier, Alice . . . . .	Latrobe
Messner, Miriam . . . . .	Warren
Morris, Virginia Iris . . . . .	Swissvale
Norris, Lois . . . . .	Pittsburgh
Orr, Elizabeth . . . . .	Apollo
Orr, Louise . . . . .	Woodlawn

Palmer, Jessie McVean . . . . .	Johnsonburg
Rosenbloom, Esther . . . . .	North Braddock
Sands, Martha Josephine . . . . .	Pittsburgh
Taggart, Mabel . . . . .	Pittsburgh
Townsend, Louise . . . . .	Apollo
Vogele, Mildred . . . . .	Pittsburgh
Walton, Mary . . . . .	Homestead
Williams, Ethel Mae . . . . .	Glassport
Young, Margaret Elizabeth . . . . .	Latrobe

### VIOLIN

Collins, Anna . . . . .	Scottdale
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### ORGAN

Humbert, Elsie . . . . .	Connellsville
Maier, Alice . . . . .	Latrobe
Smith, Ionia Fairchild . . . . .	Clarksburg, W. Va.
Stuckslager, Helen Beam . . . . .	McKeesport

### HARMONY AND COMPOSITION

Baughman, Beulah . . . . .	Pittsburgh
Bell, G. S. . . . .	St. Louis, Mo.
Bickel, Florence . . . . .	Pittsburgh
Collins, Anna . . . . .	Scottdale
Crowe, Elizabeth . . . . .	Pittsburgh
Donnell, Elizabeth . . . . .	Pittsburgh
Gerhold, Alma . . . . .	Homestead
Grant, Bertha . . . . .	East Liverpool, O.
Haines, Helen . . . . .	Butler
Homer, Susie Iona . . . . .	Pittsburgh
Humbert, Elsie . . . . .	Connellsville
Hughes, Jean . . . . .	Latrobe
Knote, Evelyn . . . . .	Wheeling, W. Va.
Latham, Margaret . . . . .	Pittsburgh
Morris, Virginia Iris . . . . .	Swissvale
Maier, Alice . . . . .	Latrobe
McWilliams, Mildred . . . . .	Pittsburgh
Norris, Lois C. . . . .	Pittsburgh
Palmer, Jessie McVean . . . . .	Johnsonburg

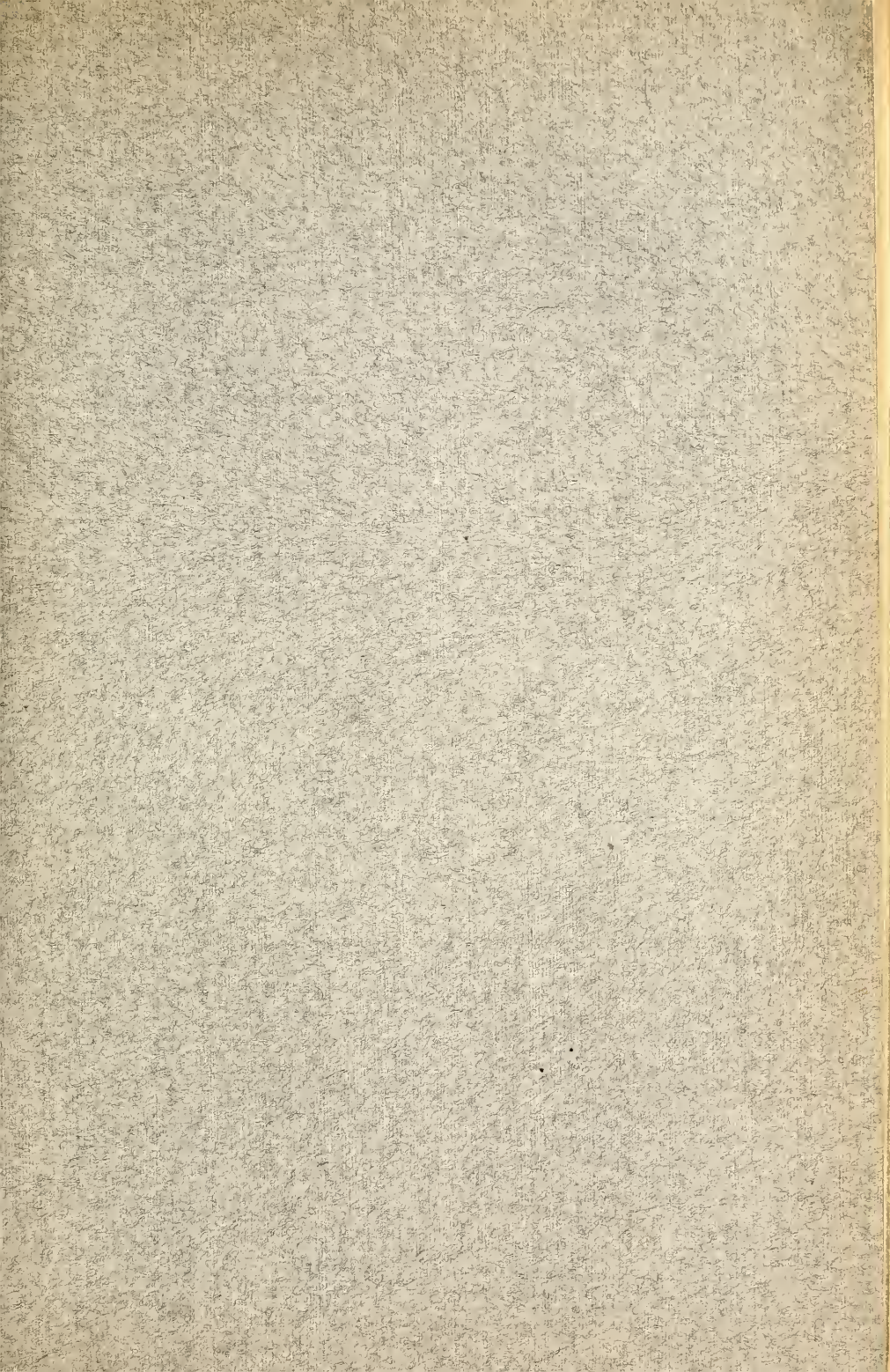
Sands, Martha Josephine . . . . .	Pittsburgh
Slocum, Laura . . . . .	Pittsburgh
Smith, Ionia Fairchild . . . . .	Clarksburg, W. Va.
Spencer, Mary Wilson . . . . .	Pittsburgh
Stuckslager, Helen Beam . . . . .	McKeesport
Van Horn, Jennie . . . . .	Braddock
Williams, Ethel Mae . . . . .	Glassport
Weston, Mildred . . . . .	Gallitzin
Zahn, Ruth . . . . .	Crafton

### HISTORY OF MUSIC

Bickel, Florence . . . . .	Pittsburgh
Crowe, Elizabeth . . . . .	Pittsburgh
Homer, Susie Iona . . . . .	Pittsburgh
Humbert, Elsie . . . . .	Connellsville
Latham, Margaret . . . . .	Pittsburgh
Messner, Miriam . . . . .	Warren
Roberts, Helen . . . . .	Pittsburgh
Sands, Martha Josephine . . . . .	Pittsburgh
Van Horn, Jennie . . . . .	Braddock
Weston, Mildred . . . . .	Gallitzin
Williams, Ethel Mae . . . . .	Glassport











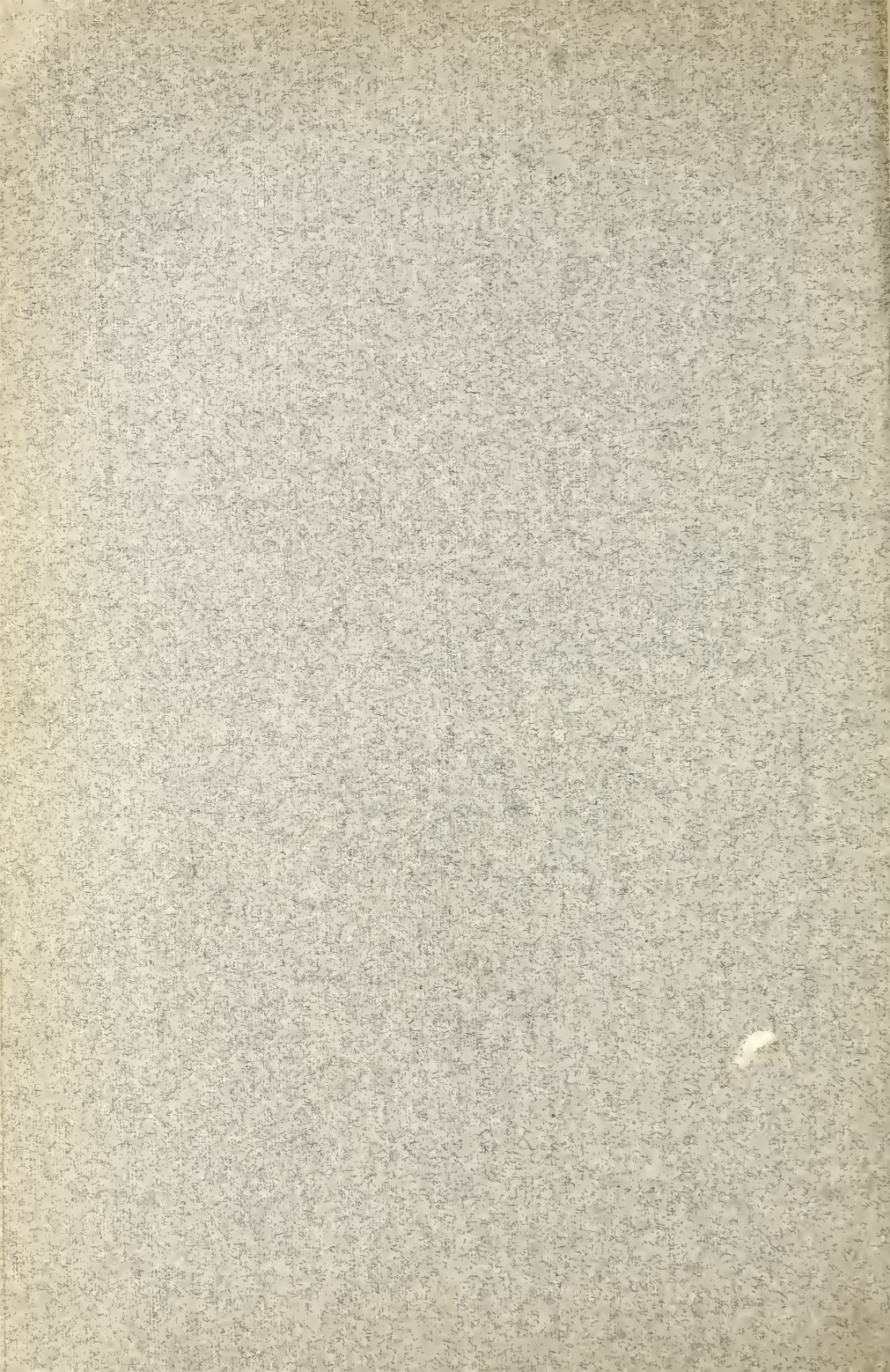


**1913 - 1914**

**Pennsylvania College for Women**

**Pittsburgh**





**1913 - 1914**

**Pennsylvania College for Women**

**Pittsburgh**



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# 1913

September							October							November							December							
..	1	2	3	4	5	6	..	..	..	1	2	3	4	..	3	4	5	6	7	8	1	..	..	2	3	4	5	6
7	8	9	10	11	12	13	5	6	7	8	9	10	11	9	10	11	12	13	14	15	7	8	9	10	11	12	13	
14	15	16	17	18	19	20	12	13	14	15	16	17	18	16	17	18	19	20	21	22	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	19	20	21	22	23	24	25	23	24	25	26	27	28	29	21	22	23	24	25	26	27	
28	29	30	..	..	..	..	26	27	28	29	30	31	..	30	..	..	..	..	..	..	28	29	30	31	..	..	..	

# 1914

January							February							March							April						
..	..	..	..	1	2	3	..	..	..	..	..	..	..	1	2	3	4	5	6	7	..	..	..	1	2	3	4
4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	5	6	7	8	9	10	11
11	12	13	14	15	16	17	8	9	10	11	12	13	14	15	16	17	18	19	20	21	12	13	14	15	16	17	18
18	19	20	21	22	23	24	15	16	17	18	19	20	21	22	23	24	25	26	27	28	19	20	21	22	23	24	25
25	26	27	28	29	30	31	22	23	24	25	26	27	28	29	30	31	..	..	..	..	26	27	28	29	30	..	..

May							June							July							August						
..	..	..	..	..	1	2	..	..	1	2	3	4	5	6	..	..	1	2	3	4	..	..	..	..	1	2	3
10	11	12	13	14	15	16	7	8	9	10	11	12	13	12	13	14	15	16	17	18	9	10	11	12	13	14	15
17	18	19	20	21	22	23	14	15	16	17	18	19	20	19	20	21	22	23	24	25	16	17	18	19	20	21	22
24	25	26	27	28	29	30	21	22	23	24	25	26	27	26	27	28	29	30	31	..	23	24	25	26	27	28	29
31	..	..	..	..	..	..	28	29	30	..	..	..	..	..	..	..	..	..	..	..	30	31	..	..	..	..	..

September							October							November							December						
..	..	1	2	3	4	5	..	..	..	1	2	3	1	2	3	4	5	6	7	..	..	1	2	3	4	5	
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26
27	28	29	30	..	..	..	25	26	27	28	29	30	31	29	30	..	..	..	..	..	27	28	29	30	31	..	..

# 1915

January							February							March							April									
..	..	..	..	..	1	2	..	..	1	2	3	4	5	6	..	..	1	2	3	4	5	6	..	..	..	1	2	3		
3	4	5	6	7	8	9	7	8	9	10	11	12	13	14	15	16	7	8	9	10	11	12	13	4	5	6	7	8	9	10
10	11	12	13	14	15	16	14	15	16	17	18	19	20	21	22	23	14	15	16	17	18	19	20	11	12	13	14	15	16	17
17	18	19	20	21	22	23	21	22	23	24	25	26	27	28	29	30	21	22	23	24	25	26	27	18	19	20	21	22	23	24
24	25	26	27	28	29	30	28	29	30	31	..	..	..	..	..	..	28	29	30	31	..	..	..	25	26	27	28	29	30	..

May							June							July							August						
..	..	..	..	..	1	2	..	..	1	2	3	4	5	..	..	1	2	3	4	5	6	7	8	9	10	11	12
9	10	11	12	13	14	15	6	7	8	9	10	11	12	11	12	13	14	15	16	17	8	9	10	11	12	13	14
16	17	18	19	20	21	22	13	14	15	16	17	18	19	18	19	20	21	22	23	24	15	16	17	18	19	20	21
23	24	25	26	27	28	29	20	21	22	23	24	25	26	25	26	27	28	29	30	31	22	23	24	25	26	27	28
30	31	..	..	..	..	..	27	28	29	30	..	..	..	..	..	..	..	..	..	..	29	30	31	..	..	..	..

## CALENDAR

### 1913

16 September, Tuesday	-	-	-	Entrance Examinations
16 September, Tuesday	-			First Semester begins—enrollment
17 September, Wednesday	-	-	-	Recitations begin
27 November, Thursday	-	-	-	Thanksgiving Day
19 December, Friday	-	-		Christmas Vacation begins

### 1914

5 January, Monday, 6 P. M.	-	-	-	College opens
26 January, Monday	-	-		Mid-year Examinations begin
2 February, Monday	-	-	-	Second Semester begins
27 March, Friday	-	-	-	Spring Vacation begins
6 April, Monday, 6 P. M.	-	-	-	College opens
16 May, Saturday	-	-	-	May Day Fête
8 June, Monday	-	-	-	Final Examinations begin
12 June, Friday, 3 P. M.	-	-	-	Alumnae Meeting
13 June, Saturday, 8:15 P. M.	-	-	-	Class Day
14 June, Sunday, 11 A. M.	-	-	-	Baccalaureate Sermon

#### Third Presbyterian Church

15 June, Monday, 8 P. M.				Commencement and President's Reception
15 September, Tuesday	-	-	-	Entrance Examinations
15 September, Tuesday	-			First Semester begins—enrollment
16 September, Wednesday	-	-	-	Recitations begin
26 November, Thursday	-	-	-	Thanksgiving Day
18 December, Friday	-	-	-	Christmas Vacation begins

### 1915

4 January, Monday, 6 P. M.	-	-	-	College opens
25 January, Monday	-	-		Mid-year Examinations begin
1 February, Monday	-	-	-	Second Semester begins
26 March, Friday	-	-	-	Spring Vacation begins
5 April, Monday, 6 P. M.	-	-	-	College opens
15 May, Saturday	-	-	-	May Day Fete
14 June, Monday, 8 P. M.	-	-	-	Commencement

## BOARD OF TRUSTEES

### Term Expires in 1913

REV. HENRY D. LINDSAY, D.D.	OLIVER MCCLINTOCK
REV. JOHN K. MCCLURKIN, D.D.	DAVID MCK. LLOYD
MRS. JOHN I. NEVIN	JAMES J. DONNELL

### Term Expires in 1914

REV. WILLIAM L. MCEWAN, D.D.	LEE S. SMITH
WILLIAM H. REA	MRS. CHARLES H. SPENCER
EDWARD WORCESTER	D. M. CLEMONS

### Term Expires in 1915

JACOB J. MILLER	WILLIAM N. FREW
JOHN B. FINLEY	JAMES C. GRAY
W. W. BLACKBURN	MRS. WILLIAM S. MILLER

## OFFICERS OF THE BOARD

OLIVER MCCLINTOCK	President
JOHN B. FINLEY	Vice-President
WILLIAM H. REA	Secretary
DAVID MCK. LLOYD	Treasurer

## ORGANIZATION OF THE BOARD OF TRUSTEES

### Executive Committee

WILLIAM H. REA

JOHN B. FINLEY  
LEE S. SMITH

JAMES C. GRAY

### Finance Committee

JOHN B. FINLEY

DAVID MCK. LLOYD

HON. JACOB J. MILLER

LEE S. SMITH

JAMES J. DONNELL

### Committee on Faculty and Studies

REV. JOHN K. MCCLURKIN, D.D.

REV. HENRY D. LINDSAY, D.D.

MRS. CHARLES H. SPENCER

MRS. WILLIAM S. MILLER

REV. WILLIAM L. MCEWAN, D.D.

### Committee on House Visitation

MRS. CHARLES H. SPENCER

MRS. JOHN I. NEVIN

MRS. WILLIAM S. MILLER

### Auditing Committee

LEE S. SMITH

JOHN B. FINLEY

REV. WILLIAM L. MCEWAN, D.D.

## FACULTY AND OFFICERS 1923

HENRY D. LINDSAY, D.D., PRESIDENT  
Philosophy

CORA HELEN COOLIDGE, B.L., DEAN  
Education

MARY JANE PIKE  
Professor Emeritus, Greek and Latin

MARY W. BROWNSON, M.A.  
Biblical Literature

GEORGE W. PUTNAM, M.A.  
English Language and Literature

VANDA E. KERST  
Expression

WILLIAM H. MARTIN, M.S.  
Mathematics

LUELLA P. MELOY, B.A.  
Sociology and Economics

T. CARL WHITMER  
Director of Music  
Piano, Organ and Theory

ALICE DACRE BUTTERFIELD, M.A.  
Chemistry and Biology

FLORENCE K. ROOT, B.A.  
Latin Language and Literature  
Greek Language and Literature

MARY DRENNAN LINDSAY, M.A.  
English Language and Literature.

## **FACULTY AND OFFICERS**

VIOLET LOUISE HOLCOMB, M. A.  
Physics

CHARLES E. MAYHEW  
Voice

HENRIETTA R. BROWN, B.A.  
Physical Training

AGATHE DE VIVIE  
German Language and Literature  
Italian Language and Literature

ARMANELLA BLACK, M.A.  
French Language and Literature  
Spanish Language and Literature

IDA S. KOELKER  
Piano

ELIZABETH B. WHITE, B.A.  
History

In order of appointment

## **EXECUTIVE OFFICERS**

EMMA MELLOU CAMPBELL, M. A.  
Librarian

MARGARET A. STUART  
Secretary to the President

MRS. SARAH L. DRAIS  
House Director

BESS L. STONER  
Assistant to the Secretary

NANCY E. McFARLAND  
House Director of Woodland Hall





## GENERAL INFORMATION

### HISTORICAL STATEMENT

PENNSYLVANIA COLLEGE FOR WOMEN was founded to supply the need in Western Pennsylvania of an institution of higher learning, organized and maintained under distinctively Christian influences. The East End of Pittsburgh was chosen as the location best suited for such a centre of liberal education, and a campus of about eleven acres was secured upon a hill crest in immediate proximity to Fifth Avenue, and between the rapidly growing residence districts of East Liberty and Shady-side. The fine, old family residence already standing upon the property was remodeled and enlarged to meet the requirements of the new school, and at a later time received the name Berry Hall, in memory of its former owner. The founding of the College was made possible by the generous gifts and active coöperation of many interested friends; and its charter, granted in December, 1869, authorized the conferring of degrees such as are "usually granted and conferred in other colleges of the United States of America," to students who should complete the offered courses of instruction in the liberal arts and sciences. The first class to be graduated comprised six students, who received their degrees in 1873.

Dilworth Hall, the second of the college buildings in order of erection, was named for Mr. Joseph Dilworth, the largest contributor toward its cost and a staunch friend and supporter of the institution. This structure was completed and dedicated in 1888. The Gymnasium was built in 1892 and connected with a Music Hall in 1897. Woodland Hall was opened as a College House in September, 1909.

## LOCATION

The College is situated in the East End of Pittsburgh, in the center of the choicest residence section of the city. The campus is a finely shaded tract of land embracing a hill top on which the buildings stand. The campus owned by the College is part of a tract of land many times as large, containing the homes of a few families of wealth. Inasmuch as the entrance to this tract is by a private road, the College is practically located in a large, private park, thus securing an abundance of space and air, a wide view and fine opportunities for outdoor games, combined with a delightful and wholesome seclusion not easy to command in a great city.

Not least among the benefits conferred upon the College by its position in the heart of Pittsburgh is its nearness to the Carnegie Institute. Here are found a splendid library, containing 250,000 volumes; a museum, rich in material for the study of zoölogy, paleontology and ethnography; an art gallery, which maintains a valuable permanent collection of paintings, and exhibits each year work of the best living artists in Europe and America; halls of architecture and sculpture, which make possible at home the acquirement of an intellectual training obtainable under ordinary circumstances only by means of extensive travel in foreign lands.

Any of the lines of electric cars running out Fifth Avenue from the downtown district will carry passengers very near the campus entrances on Murray Hill Avenue and on Woodland Road; and cabs may be taken at the railway stations which will convey travelers to the College. Baggage entering the city by the Pennsylvania lines should be checked to the East Liberty Station.

## BUILDINGS

The main buildings of the College are so connected that practically no exposure to the weather is involved in passing from one to another. They are so disposed as to receive the sunshine on all sides in the course of the day. All the buildings are heated by steam and lighted with gas.

BERRY HALL is four stories in height. On its lower floors are the library, drawing rooms, class rooms, and the offices of the President and the Dean. On its upper floors are living rooms for faculty members and resident students.

MUSIC HALL has a spacious gymnasium on the first floor, and on the second, music studios and practise rooms.

DILWORTH HALL is devoted to academic uses. In it are the Assembly Hall, lecture rooms and laboratories.

WOODLAND HALL, the new residence house, was opened in the spring of 1909. It is a four-story building containing a large reception hall, parlors, dining and service rooms, an infirmary and living accommodations for about sixty students. It is constructed after the most approved plans for college dormitories and has been found a commodious and very attractive home.

## LIBRARIES

THE COLLEGE LIBRARY, housed in Berry Hall, contains thirty-five hundred volumes. Students have access to its shelves from 8:15 A. M. to 9:30 P. M., daily. The collection is classified according to the Dewey system, and is provided with a card catalogue. A thorough reorganization has augmented the working value of the books already on the shelves; and the departmental collections are enlarged from time to time by gifts of Alumnæ and friends, or by appropriations of funds. A Library Endowment Fund was started during 1909 by Mrs. Agnes Pitcairn Decker, an Alumna of the College, as a memorial of Mrs. Florence I. Holmes Davis, of the Class of 1875; and as this fund increases, its interest will become available for the purchase of important books.

**THE CARNEGIE LIBRARY OF PITTSBURGH.** The facilities of this immense library are at the disposal of the Pennsylvania College for Women, for not only is it near enough for personal consultation, but through the courtesy of the authorities of the Carnegie Library a loan department has been established at the College for students. This permits the use upon an extensive scale of outside reading in connection with all branches of assigned work.

## READING ROOM

Adjacent to the Library is a well-lighted and attractive reading room, supplied with daily and weekly newspapers, standard monthly magazines, quarterly reviews and departmental journals.

## LABORATORIES AND MUSEUMS

The Science Department is located on the third floor of Dilworth Hall and is provided with lecture rooms and with physical, chemical and biological laboratories, supplied with all modern apparatus necessary for the pursuit of the courses offered. The physics laboratory is provided with apparatus for undergraduate work in mechanics, sound, heat, light, electricity and magnetism. The chemical laboratory is equipped with accurate chemical balances, boiling and freezing point apparatus and other facilities for careful quantitative work. Connected with the chemical laboratory is a stock room situated in the basement of Dilworth Hall, from which duty free apparatus is loaned to students for use in the laboratory. This apparatus remains the property of the College and may be returned at any time; but if broken or used up the student is required to replace it. While no attempt is made to maintain a museum, students have access to a very good collection of minerals, specimens of the rarer elements and their compounds, and representatives of the less readily prepared organic substances. Collections of mounted skeletons illustrating the comparative osteology of typical vertebrates of preserved and mounted zoölogical forms, and of charts and microscopical mounts supplement the laboratory equipment in Biology.

In addition to the College equipment students have access to the abundant facilities of Carnegie Museum, among which are a valuable herbarium, paleontological specimens and a collection of 38,000 birds, besides the large Science Library.

## HEALTH AND PHYSICAL TRAINING

The health of students is made a chief object of attention. A physical examination is required of each student upon entrance

and during the year at the discretion of the Director of the Physical Training Department. The head of Woodland Hall gives her personal attention to all girls who may be ill. The infirmary in the dormitory is well equipped for the care and comfort of the sick.

The Department of Physical Training, with a well-equipped gymnasium, in its required and elective courses, offers to students of the College opportunities for intelligent exercises and the aesthetic development of the body. All resident students are expected to take daily outdoor exercise.

The regulation suit consists of black bloomers, white jumpers and gymnasium shoes. This suit may be ordered through the Director at a cost of about seven dollars.

The College Athletic Association controls all athletics, which include tennis, field hockey, basket ball and swimming. Satisfactory arrangements for swimming have been made at the new Young Women's Christian Association building.

## MUSIC

The College recognizes the place of music in higher education and in its School of Music provides ample facilities for those who wish to pursue this study in connection with other college work. Attention is called to the announcement of the School of Music on page 75 of this catalogue.

Courses in the history and theory of music are counted toward the baccalaureate degree. Practise courses may be so counted if combined with a proper amount of history and theory.

## ROUTINE OF ADMISSION

Registration blanks are provided by the College for the use of applicants for admission and will be forwarded upon request. These blanks, properly filled and signed, should be in the hands of the college authorities by September 10th. A registration fee of five dollars will be charged for holding a room for a resident student. This will be credited on the first payment, or refunded if notification of withdrawal is sent before August 25th.



All applicants for admission must present satisfactory testimonials of good moral character. Those who come from other colleges must bring certificates of honorable dismissal.

## **METHODS OF ADMISSION TO THE FRESHMAN CLASS**

Admission is by one of the following methods:

*a.* **EXAMINATION.** Applicants for admission may be examined at the College either during the week preceding Commencement or at the opening of the College year.

Certificates of the College Entrance Examination Board are accepted in lieu of the entrance examinations at the College.

*b.* **CERTIFICATE FROM ACCREDITED SCHOOLS.** instead of examination, certificates from High Schools and Academies whose work has been approved by the College and whose courses prepare for the Freshman class will be accepted. Blank forms of such certificates will be furnished instructors on application to the President, with whom they are invited to correspond. Applicants for admission are requested to present their certificates, or send them by mail to the President during the week preceding Commencement, or as soon thereafter as practicable. When the requirements given below have not been met exactly, equivalents, stated in detail, must be offered. Students received on certificate are regarded as on probation during the first semester.

## **REQUIREMENTS FOR ADMISSION TO THE FRESHMAN CLASS**

Fifteen units are required for admission to the freshman class. Of these fifteen units, three must be in English, three in mathematics, one in history, four in Latin and two in some other language than English or Latin. The remaining two units are elective.

A unit represents a subject pursued at least five three-quarter hour, or four one hour periods a week for one year.

## EXPLANATION OF REQUIREMENTS FOR ADMISSION

### ENGLISH

Three units.

Preparation should include the following subjects:

a. COMPOSITION. Students should be familiar with the essentials of English grammar, should know the fundamental principles of rhetoric, and should be able to apply them in the construction of effective sentences and paragraphs and in the organization of written work. No student will be accepted whose paper is notably deficient in logical development of the subject matter, or in such details of form as spelling, punctuation, grammar and division into paragraphs.

b. LITERATURE. The books recommended are the Uniform College Entrance requirements in English, but other similar works will be accepted as equivalents. Candidates will be required to write one or more paragraphs on each of several subjects, chosen from a considerably larger number, given in the examination paper. The questions on all the books assume a knowledge of subject-matter and structure, some acquaintance with the lives of the authors and with the period in which they lived, but those on books prescribed for study and practice call for more detailed treatment than those on books prescribed for reading.

(1.) Books prescribed for reading and practice for students entering in 1912, 1913, 1914 are:

Group I. (Two to be selected). *The Old Testament*, including the most important narrative parts of *Genesis*, *Exodus*, *Joshua*, *Judges*, *Samuel*, *Kings*, and *Daniel*, together with the books of *Ruth* and *Esther*; the *Odyssey*, with the omission of Books I-V, XV-XVII; the *Iliad*, with the omission of the Books XI, XIII-XV, XXI; Virgil's *Aeneid*. English translations of the *Odyssey*, the *Iliad*, and the *Aeneid*, of acknowledged literary merits, must be used.

Additional units from Groups II-V may be substituted for the two units of this group.

Group II. (Two to be selected). Shakespeare's *Julius Caesar*; *The Merchant of Venice*; *As You Like It*; *A Midsummer-night's Dream*; *Twelfth Night*; *Henry V*.

Group III. (Two to be selected). Dr. Goldsmith's *The Vicar of Wakefield*; either Scott's *Ivanhoe* or Scott's *Quentin Durward*; Hawthorne's *The House of Seven Gables*; Thackeray's *Henry Esmond*; either Dickens' *A Tale of Two Cities* or Dickens' *David Copperfield*; Mrs. Gaskell's *Cranford*; George Eliot's *Silas Marner*; Stevenson's *Treasure Island*; Defoe's *Robinson Crusoe*, Part 1.

Group IV. (Two to be selected). *The de Coverley Papers* in *The Spectator*; Franklin's *Autobiography*; Bunyan's *Pilgrim's Progress*, Part I; Irving's *Sketch-Book*; Macaulay's *Essays on Clive and Hastings*; Thackeray's *English Humorists*; selections from Lincoln, including at least the two *Inaugurals*, the *Speeches in Independence Hall and at Gettysburg*, the *Last Public Address* and the *Letter to Horace Greely*, together with a short memoir or estimate; Parkman's *Oregon Trail*; Thoreau's *Walden*; Huxley's *Autobiography* and selections from *Lay Sermons*, including addresses on *Improving Natural Knowledge*, *A Liberal Education*, and *A Piece of Chalk*; Stevenson's *Inland Voyage* and *Travels with a Donkey*.

Group V. (Two to be selected.) Palgrave's *Golden Treasury* (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Gray's *Elegy in a Country Churchyard* and Goldsmith's *The Deserted Village*; Coleridge's *The Ancient Mariner* and Lowell's *The Vision of Sir Launfal*; Scott's *The Lady of the Lake*; Byron's *Childe Harold*, Canto IV. and *The Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), Book IV, with special reference to Wordsworth, Keats, and Shelley; Poe's *The Raven*; Longfellow's *The Courtship of Miles Standish*, and Whittier's *Snow-Bound*; Macaulay's *Lays of Ancient Rome*, and Arnold's *Sohrab and Rustum*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from*

*Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hêrvé Riel, Pheidippides, My Last Duchess, Up at a Villa-Down in the City.*

(2.) The books prescribed for study and practice for students entering in 1912, 1913, 1914 are:

Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penserosa*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker-Hill Oration*; Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns*.

## MATHEMATICS

Three units.

a. ALGEBRA THROUGH QUADRATICS. The four fundamental operations for rational algebraic expressions. Factoring, determination of highest common factor and lower common multiple by factoring. Fractions, including complex fractions, ratio and proportion. Linear equations, numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

Quadratic equations, both numerical and literal. Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the  $n$ th term and the sum of the terms of arithmetical and geometrical progressions, with application.

b. PLANE GEOMETRY. The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circles and the measurements of angles; similar polygons; areas; regular polygons and the measurements of the circle. The solution of numerous original exercises, including loci

problems. Applications to the mensuration of lines and plane surfaces.

## HISTORY

One unit each.

a. ANCIENT HISTORY. With special reference to Greek and Roman History, but including also a short introductory study of the Ancient East and extending to 800 A.D.

b. MEDIAEVAL AND MODERN HISTORY. European history, from the death of Charlemagne to the present time.

c. ENGLISH HISTORY. With due reference to social development and the growth of political institutions.

d. AMERICAN HISTORY AND CIVIL GOVERNMENT.

## LATIN

One unit each.

a. GRAMMAR AND ELEMENTARY PROSE COMPOSITION. A thorough knowledge of all regular inflections, all common irregular forms, the fundamentals of syntax, and a select vocabulary.

b. CAESAR. *Gallic War*, Book I-IV, or the equivalent from other books of the *Gallic War* or the *Civil War*, or *Nepos*, *Lives*. The examination consists of translation at sight of narrative prose similar to the above.

c. CICERO. The four orations against Catiline and the orations from Archias and for the Manilian Law, or the equivalent from other orations of Cicero or from his letters, or from Sallust, Catiline and Jugurtha, except that the orations for the Manilian Law and for Archias are required. The examination consists of translation (together with historical, literary and grammatical questions) of passages taken from the two required orations and of sight translation of passages similar to the above in vocabulary.

syntax and range of ideas. The applicant will also be examined in advanced prose composition.

d. VIRGIL. *Aeneid*, Books I-VI, or the equivalent from other books of the *Aeneid*, or from the *Bucolics* or *Georgics*, or from Ovid, *Metamorphoses*, *Fasti*, or *Tristia*, except that *Aeneid* I, II and either IV or VI are required. The examination consists of translation (together with questions on grammar, prosody, literary and historical allusions, and subject-matter) of passages taken from the required books, and of sight translation of passages similar to the above in vocabulary, syntax, and range of ideas.

## GREEK

One unit each.

a. GRAMMAR AND COMPOSITION. The topics for examination are similar to those under Latin Grammar and Composition. See page 20.

b. XENOPHON. *Anabasis*, Books I-IV. The examination will include translation at sight.

c. HOMER. *Iliad*, Books I-III (omitting II, 494-end). The examination will include translation at sight.

## GERMAN

One unit each.

a. (1.) A knowledge of elementary grammar, including forms and the simpler rules of syntax and word order.

(2.) Reading and translation of not less than 100 pages of easy modern German prose.

(3.) Ability to read German aloud intelligently and with correct pronunciation and to answer simple questions in German based upon the texts read.



b. (1.) Further study of the grammar, particularly of the syntax, uses of modal auxiliaries, subjunctive and infinitive moods.

(2.) Reading and translation of not less than 200 pages of modern stories and plays with a few poems, in addition to the amount already indicated.

(3.) Ability to translate easy English prose into German. This ability may be acquired by constant practice in oral and written reproductions of the contents of the texts read, and by easy exercises in German prose composition.

(4.) Practice in dictation, conversation, memorizing of selected passages.

c. (1.) Further study along the lines already indicated.

(2.) A thorough review of the grammar, accompanied by the use of a good text book in German prose composition.

(3.) Reading and translation of from 300 to 400 pages of more difficult German. It is recommended that half of this amount be selected from simpler works of the classical period.

(4.) Ability to follow a recitation conducted in German, to answer questions based upon the texts and to give oral and written reproductions of passages read and discussed in the class.

## FRENCH

One unit each.

a. (1.) A knowledge of the fundamental principles of grammar is required. Inflection of nouns, adjectives, the use of all pronouns, conjugation of regular verbs and the common irregular verbs and the elementary rules of word order.

(2.) Reading and translation of not less than 100 pages of easy modern French.

(3.) Ability to read French aloud intelligently with correct pronunciation and to answer simple questions in French based upon the text read.

b. (1.) Further study of grammar, particularly of syntax. Common idiomatic phrases, uses of modal auxiliaries, subjunctive and infinitive moods.

(2.) Reading and translation of not less than 200 pages of modern stories and plays, with a few poems in addition to the amount already indicated.

(3.) Ability to translate easy English prose into idiomatic French. This ability may be acquired by constant practice in oral and written reproduction of the contents of the texts read, and by easy exercises in French composition. Practice in dictation, conversation, memorizing of selected passages.

c. (1.) Further study along the lines already indicated. A thorough review of the grammar accompanied by the use of a good text book in French prose composition.

(2.) Reading and translation of from 300 to 400 pages of more difficult French, half of which should be selected from the simpler classics.

(3.) Ability to follow a recitation conducted in French, to answer questions based upon the texts and to give oral and written reproductions of passages read and discussed in class.

## CHEMISTRY

One, or one-half, unit.

The study of at least one standard text-book, so planned that the student may acquire a connected and comprehensive view of the most important facts and laws of elementary chemistry.

Laboratory work, comprising at least forty exercises similar to those given in Brownlee's or Newell's *Laboratory Manual* or in the College Entrance Board requirement, recorded in a note book, certified by the teacher to be the original work of the student.

## PHYSICS

One, or one-half, unit.

The study of a text-book the equivalent of Carhart and Chute's *High School Physics*, supplemented by the solution of numerous simple illustrative problems. Mechanics, heat, sound, light, magnetism and electricity should be included.

Instruction by lecture table demonstrations of the practical aspects and applications of the fundamental facts and laws of physics.

Laboratory work shown in a note book certified by the instructor to be the original work of the student. The work should include at least thirty experiments chosen to give forceful illustration of these facts and laws and to develop accuracy of observation and clearness of thought.

## BOTANY

One, or one-half, unit.

The general principles of anatomy and morphology, physiology and ecology. Two thirds of the time should be devoted to individual laboratory work recorded by descriptions and diagrammatically accurate drawings.

The natural history of the plant groups and classification. The structure, reproduction and adaptations to habitat of one or two types of Algae, Fungi, Lichens, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms.

## ADMISSION TO ADVANCED STANDING

Students from other colleges whose entrance requirements are equivalent to those of the Pennsylvania College for Women and which offer equivalent courses of study will be credited with the work they have done in such colleges and admitted to advanced standing without examination. Students who do not come from other colleges, if they desire advanced credit must pass exami-

nations in subjects offered as college work. No student will be accepted to candidacy for the baccalaureate degree after the beginning of the senior year.

### ADMISSION AS SPECIAL STUDENTS

Students may receive instruction without becoming candidates for a degree, provided they can meet the requirements for admission to the freshman class, or have pursued other studies which may be accepted as equivalent to the entrance requirements, or have such training along special lines as will warrant their admission to college classes. The college welcomes, as students, persons of mature age and earnest purpose.

All special students are required to consult with the Dean concerning their courses of study and she will arrange their work in consultation with the heads of the departments. Certificates will be given for completed work of this kind. *Special students are permitted to enter only those classes for which their previous training has fitted them.* In general they are subject to the same requirement as to college regulations, number of hours of work and standing in class as regular students, but each application is considered on its merits.

### REQUIREMENTS FOR GRADUATION

The degree of Bachelor of Arts is given to students who have satisfactorily completed courses amounting in all to sixty hours of college work.

The unit of time used in measuring the value of work is a year hour,—that is, one full hour of class work weekly during the college year. The requirement for each year of the college course is fifteen hours weekly. Students who have maintained a uniformly high grade of scholarship may, by special permission of the faculty, carry extra work, not to exceed two hours per week.

The total requirement for the Bachelor's degree is as follows:

English . . . . .	six hours
Mathematics . . . . .	three hours
History . . . . .	three hours
Science . . . . .	three hours
Philosophy . . . . .	four hours
Biblical Literature . . . . .	four hours
Language (other than English) . . . . .	six hours
Elective work . . . . .	thirty-one hours

### **ELECTIVE WORK**

Elective work is distributed as follows: three hours in the freshman year, six hours in the sophomore year, ten and one-half hours in the junior year and eleven and one-half hours in the senior year.

All elections are subject to the approval of the faculty. At the end of the freshman year each student is required to choose a major department in which she will do at least eight hours of work and an allied minor department in which she will do at least six hours of work. Not more than six hours may be elected in a single department in any one semester. The faculty retains the option of forming classes in any elected courses when fewer than six students apply for registration.

### **ATTENDANCE UPON CLASS EXERCISES**

The grade of work done by a student is necessarily affected by irregularity of attendance upon lectures or recitations. Special examinations may be required if the number of absences for any semester shall exceed the limits of moderation.

Opportunities are occasionally offered for attendance upon lectures given in the city which are connected in subject with courses offered by the College. Upon notification by the instructor concerned, students will be expected to attend such lectures, and may have them counted as part of the required work of the courses to which they are allied.

## EXAMINATIONS

General examinations are held in all subjects at mid-year and at the close of the college year. Partial examinations may be given at the discretion of the instructor. Examinations taken for the removal of conditions, or for the securing of credit for private work are scheduled for the opening day of a semester, but may be appointed for other times under special conditions.

Students failing to present themselves for examinations in course may secure private examinations by permission of the Dean and upon payment of a fee of two dollars. If several examinations are to be taken under one permit, a fee of three dollars shall cover the list.

## CONDITIONS

A student whose work in any course is unsatisfactory will be conditioned in this subject at the end of the semester. This condition must be removed by doing an assigned amount of supplementary work within time-limits set by the instructor, and if considered necessary, under the direction of a tutor. If the condition is not removed at the expiration of the time-limit, the work of the course will be considered a failure. Failure in a required course must be made good by the repetition of the course at the time when it is next regularly given.

Entrance conditions are ordinarily to be made good within the first year of college attendance. No student can retain her entrance classification if she continues to carry conditions exceeding five year hours.

## REPORTS

Reports of the scholarship of students are sent out at the end of a semester to parents or guardians. A student may learn her standing in classes by making application to the Dean at the end of a semester.



## GRADUATE WORK

The degree of Master of Arts is conferred upon Bachelors who hold the degree of Arts from this college, or from some other college of equal standing, and who have satisfactorily completed one full year of graduate work under the direction of the faculty. In exceptional cases the work may be done *in absentia*, an examination being required of the candidate as a test of fitness to receive the degree.

Advanced courses appropriate for graduate study leading to the higher degrees are described in the outlines of courses of various departments. Some courses are open to both graduate and undergraduate students; graduates pursuing these courses must maintain a standard of work sufficiently high to satisfy the college authorities that they are entitled to receive graduate credit.

The amount of work required of a candidate for the degree of Master of Arts is equivalent to fifteen hour courses pursued during a period of residence not shorter than one year. Candidates for this degree are required to pass examinations in one major and at least one minor subject, which have been determined upon not later than October 15th of the year in which the examinations will be taken. The major and one minor must be in separate departments, but the subjects should be so related as to indicate a definite acquisition in scholarship on the part of the student. A thesis on the major subject, due not later than May 1st, will be required to complete the work for the Master's degree.

A graduate of the Pennsylvania College for Women who has completed one full year of continuous graduate study in an American university of high standing may make application for the degree of Master of Arts and this may be granted upon condition that she comply with the following requirements:

1. She shall present the university registrar's certificate of credit for graduate work completed, and a letter from the chairman of her examining committee of the university certifying that her scholarship and amount of work successfully finished entitle her to the university examination for the Master's degree

and that he approves her application for such a degree from the Pennsylvania College for Women.

2. She shall submit a satisfactory thesis based upon her graduate study.

3. She shall present herself for examination for the Master's degree at the discretion of the faculty.

Tuition and laboratory fees paid by graduate students are the same as those paid by undergraduates. The charge for a diploma is ten dollars.

## CURRICULUM SCHEDULE

Freshman Year	Sophomore Year	Junior Year	Senior Year
Bible Course D 1 hour	Bible Course C. 1 hour	Bible Course B 1 hour	Bible Course A 1 hour
English Course D. 2 hours	English Course C. 2 hours	English Course B. 2 hours	Ethics 1½ hours
Mathematics Course D. 3 hours	Science 3 hours	Psychology 1½ hours	Logic 1 hour
Language 3 hours	Language 3 hours	Elective 10½ hours	Elective 11½ hours
History Course D. 3 hours	Elective 6 hours		
Elective 3 hours			
15 hours	15 hours	15 hours	15 hours

## COURSES OF INSTRUCTION

### PHILOSOPHY

DR. LINDSAY, MR. MARTIN

B-1. PSYCHOLOGY. A study of the laws and the phenomena of the mind.

Dr. Lindsay.

*Required of juniors. 3 hours, first semester.*

B-2. LOGIC. A study of the principles of inductive and deductive reasoning, and of the relation of logical theory to scientific and philosophic thought.

Mr. Martin.

*Required of juniors. 2 hours, second semester.*

A. ETHICS. The history of ethical philosophy, and a study of the fundamental principles of morality.

Dr. Lindsay.

*Required of seniors. 3 hours, first semester.*

1. HISTORY OF PHILOSOPHY. An introductory outline of Greek philosophy, followed by lectures on the development of modern philosophy.

Dr. Lindsay.

*Elective, Prerequisite: Courses B. 2 hours, second semester.*

2. CHRISTIAN EVIDENCES. An outline of the grounds upon which the Christian system rests.

Dr. Lindsay.

*Elective, open to sophomores, juniors and seniors. 2 hours, first semester.*

### EDUCATION

MISS COOLIDGE

1-2. HISTORY OF EDUCATION. The development of educational ideals, institutions and methods, with special reference to modern educational thought and practice.

*Elective, open to juniors. 2 hours, first semester. 1 hour, second semester.*

3. CONTEMPORARY EDUCATIONAL PROBLEMS. Study of experiments in educational problems with reference to their psychological and social value.

*Elective, open to juniors. 1 hour, second semester.*

4. PRINCIPLES OF EDUCATION. A study of fundamental principles from the standpoint of the teacher. Emphasis is placed on the biological and physical aspects of education.

*Elective, open to seniors. 1 hour, first semester.*

5-6. CLASS ROOM METHOD AND MANAGEMENT. A practical course in methods of presentation of subject matter and in discussion of school activities. Opportunity will be given for observation in Dilworth Hall and in selected High Schools.

7. By co-operation between the departments of Social Service and Education, advanced students in both departments may have opportunity to study some lines of social work open to educational investigation and of practical value to teachers.

*Elective for seniors. 1 hour through the year.*

See also courses: History 15, Mathematics 8, Chemistry 12.

The diplomas of students who have taken the two hundred hours of educational work required by the School Code are countersigned by the school authorities. The courses in other departments which may be counted to meet the State requirements are Philosophy, Courses B-1, B-2, A and 1; History, Course 15 Mathematics, Course 8 and Chemistry, Course 12.

Graduates of the College have state teachers' certificates for Pennsylvania under the School Code. Arrangements have also been made with the New York State Board of Education whereby graduates receive the College Graduate Professional Certificate. Similar arrangements have been made with authorities in other states in which graduates have desired to teach.

In addition to the formal courses in this department there are numerous lectures at various times during the year by men of distinction in educational lines.

## **SOCIOLOGY AND ECONOMICS**

MISS MELOY

1-2. SOCIAL SERVICE. Theory and observation. The causes of poverty; history, principles and methods of preventive, constructive and correctional agencies for social welfare. Required readings about such subjects as public health, immigration, dependent children, juvenile delinquency. Weekly visits to carefully selected institutions in and near Pittsburgh.

*Elective, open to sophomores, juniors, and seniors. 2 hours, through the year.*

3-4. SOCIAL SERVICE. Theory and practice. Public and private care of dependent classes; administration, support and supervision of charities; treatment of needy families. The use of statistics. The study of legislation for social welfare. Weekly practice in social work under the direction of a social settlement, child helping society, or the Associated Charities. Papers showing the results of investigations made by students.

*Elective. Prerequisite: Course 1-2. 2 hours, through the year.*

5-6. SOCIAL SERVICE. Advanced course. Detailed study, especially of constructive methods in a field chosen by the student. Weekly practice in social work.

*Elective. Prerequisite: Courses 1-2 and 3-4. 2 hours, through the year.*

7. SOCIOLOGY. Study of the evolution of society followed by lectures on the views of prominent sociologists.

*Elective, open to juniors and seniors. 2 hours, first semester.*

8. SOCIOLOGY. The Social Order and its Organization. Cooley's *Social Organization* is used. Such topics as communication, social classes, institutions, democracy, progress are studied.

*Elective, open to juniors and seniors. 2 hours, second semester.*



9-10. ECONOMICS. An introduction to principles. Practical economic problems.

*Elective, open to juniors and seniors. 2 hours, through the year.*

## HISTORY AND POLITICAL SCIENCE

MISS BROWNSON, MISS WHITE

D. HISTORY OF EUROPE TO THE RENAISSANCE. The development of Western Europe, to the Reformation. A study of such important institutions and movements as feudalism, the church, the empire, the crusades, and the revival of learning.

*Required of freshmen. 3 hours, through the year.*

1-2. EUROPE FROM THE RENAISSANCE TO THE CONGRESS OF VIENNA. This course includes such topics as the Reformation, the struggle in England for constitutional government, intellectual and social development in Europe, the French Revolution, and the Napoleonic era.

*Elective. Prerequisite: Course D. 3 hours, through the year.*

3-4. THE HISTORY OF ENGLAND. This course covers the period from the Anglo-Saxon invasion to the twentieth century. Emphasis is placed upon the growth of liberty, the organization of the government and other national institutions, the characteristics of the British constitution, the development of the Empire and existing social and political conditions.

*Elective. Prerequisite: Courses D and 1-2. 3 hours, through the year.*

5-6. AMERICAN HISTORY. An outline course beginning with the colonies and extending to the present time. The emphasis is on political, social and economic factors.

*Elective. Prerequisite: Courses D and 1-2. 3 hours, through the year.*

7. THE DEMOCRATIC MOVEMENT IN THE NINETEENTH CENTURY. This course begins with Congress of Vienna and takes up the democratic movement in its intellectual, economic, social and political aspects.

*Elective. Prerequisite: Courses 1-2 and 3-4. 2 hours, first semester.*

8. An intensive study of one of the following periods:

(a.) THE RENAISSANCE. This course deals with the period from 1250 to 1500 with special reference to Italy.

(b.) THE REFORMATION. A survey of the organization and doctrines of the Mediæval Church, efforts for reform before the revolt, the spread of Protestantism and the conflict with Catholicism.

(c.) THE FRENCH REVOLUTION. This course, after considering briefly the political and intellectual conditions of the eighteenth century, takes up in detail the Revolutionary and Napoleonic eras with special attention to France but with constant reference to the other countries of Europe and to America.

*Elective. Prerequisite: Courses 1-2 and 3-4. 2 hours, second semester.*

9. THE CONSTITUTIONAL HISTORY OF THE UNITED STATES. A study of the rise of the United States as a federal state, of the principles upon which the American constitutional system is based and of the historical development of those principles.

*Elective. Prerequisite: Courses D, 1-2 and 5-6. 2 hours, first semester.*

10. CIVIL GOVERNMENT IN THE UNITED STATES. An analysis of the structure and the workings of government in the United States, local, state and national.

*Elective, open to juniors and seniors. 2 hours second semester.*

11-12. CONTEMPORARY HISTORY. A study of periodical literature with topical reports by students.

*Elective, open to all students. 1 hour, through the year.*

13. THE TEACHING OF HISTORY. After a preliminary study of the nature and treatment of historical material and of the history of history, the course takes up methods of teaching history, especially in the secondary schools. Practical exercises

are required and opportunity is given for observation work in the city schools.

*Elective, open to juniors and seniors. 2 hours, second semester.*

## GREEK

MISS ROOT

1-2. GRAMMAR AND PROSE COMPOSITION. XENOPHON, *Anabasis*.

*Open to all students not offering Greek for entrance. 3 hours through the year.*

3-4. HOMER, *Iliad*, and *Odyssey*.

*Prerequisite: Course 1-2. 3 hours, through the year.*

5. PLATO, *Apology*, *Crito*; XENOPHON, *Memorabilia*. PROSE COMPOSITION.

*Open to freshmen entering with three units of Greek. 3 hours, first semester.*

6. HOMER, *Odyssey*.

*3 hours, second semester.*

7-8. DEMOSTHENES, *Oration on the Crown*. Selections from Greek Lyric Poets. Euripides, *Medea* and *Alcestes*.

*Prerequisite: Courses 5 and 6.*

9-10. AESCHYLUS AND SOPHOCLES.

*2 hours, through the year.*

11. PLATO, *Phaedo*.

*2 hours, one semester.*

12. HERODOTUS.

*2 hours, one semester.*

13. THUCYDIDES.

*2 hours, one semester.*

14-15. GREEK PROSE COMPOSITION.

*Prerequisite: Course 5. 1 hour, through the year.*

16-17. HISTORY OF GREEK LITERATURE.

*1 hour, through the year.*

**LATIN**

MISS ROOT

1. LIVY. Selections from Books I, XXI, XXII.

*Open to freshmen. 3 hours, first semester.*

2. HORACE, *Odes* and *Epodes*.

*Freshmen. 3 hours, second semester.*

3. LATIN PROSE COMPOSITION.

*Open to all who enter with 4 units of Latin. 1 hour, first semester.*

4. LATIN COMEDY.

*Prerequisite: Courses 1 and 2. 2 hours, first semester.*

5. HORACE, *Satires* and *Epistles*.

*Prerequisite: Courses 1 and 2. 2 hours, second semester.*

6. TACITUS. Selections from *Histories* and *Annals*.

*Open to juniors and seniors who have completed 1 and 2. 2 hours, first semester.*

7. CATULLUS, TIBULLUS, PROPERTIUS.

*Open to juniors and seniors who have completed 1 and 2. 2 hours, second semester.*

8. LUCRETII. *De Rerum Natura*.

*Prerequisite: Courses 1, 2, 3 and 4. 2 hours, first semester.*

9. POST-AUGUSTAN PROSE AND POETRY.

*2 hours, second semester.*

10. SIGHT READING.

a. Cicero, *De Senectute*, *De Amicitia* and *Letters*.

b. Selections from Ovid and Virgil.

*Open to students who have had 1 and 2. 2 hours counting as 1.*

11-12. ADVANCED PROSE COMPOSITION.

*For juniors and seniors. 1 hour, through the year.*

13-14. HISTORY OF LATIN LITERATURE.

*1 hour, through the year.*

15-16. LECTURES ON THE PRIVATE LIFE OF THE ROMANS.

*1 hour, through the year.*

## GERMAN

### MADAME DE VIVIE

1-2. ELEMENTARY COURSE. Grammar, prose composition, reading of short stories and plays by modern writers, memorizing of poetry, conversation.

*Open to students who presented no German at entrance. 3 hours, through the year.*

3-4. INTERMEDIATE COURSE. Reading of modern German prose, and of the simpler classical dramas; grammar, prose composition, conversation.

*Open to students who presented two units of German, or who have taken Courses 1-2. 3 hours, through the year.*

5-6. COURSE IN GERMAN CLASSICS. Reading from the dramas and poems of Goethe, Schiller and Lessing. Lectures in the German language upon the classical period. Essays and oral reports upon assigned topics.

*Open to students who presented three units of German, or who have taken Courses 1-2 and 3-4. 3 hours, through the year.*

7-8. ADVANCED GERMAN COMPOSITION AND SYNTAX. Selected passages from English authors translated into idiomatic German. Original themes upon assigned topics. Study of idioms, synonyms and syntax.

*Prerequisite: Courses 1-2 and 3-4, or their equivalents; especially recommended to those who expect to teach German. 1 hour, through the year.*

9-10. OUTLINE HISTORY OF GERMAN LITERATURE. A rapid survey of the principal movements and productions of the national literature, supplemented by assigned readings. This course is intended to serve as an introduction to the detailed study of special periods and is recommended to all students desiring to specialize in German.

*Prerequisite: Courses 1-2, 3-4, 5-6, or their equivalents, or by permission, to freshmen entering with 3 units of German. 1 hour, through the year.*

11-12. LITERATURE OF THE NINETEENTH CENTURY.

Reading and discussion of representative works of the best known authors. Lectures. Essays.

a. The drama. 1 hour, through the year.

b. The novel. 2 hours, through the year.

*Prerequisite: Course 5-6.*

13-14. CONTEMPORARY LITERATURE. Rapid reading of current fiction and dramas with discussion of modern tendencies in literature. Lectures, Essays.

*Prerequisite: Course 5-6. 2 hours, through the year.*

15-16. LEGENDARY CYCLES OF THE MIDDLE AGES. A brief survey of Germanic mythology, tracing the origin and development of the principal legends. Reading of mediæval epics in modern German translation. Comparative study of the Wagnerian opera texts.

*Prerequisite: Courses 9-10 and 11-12. 2 hours, through the year.*

17. LESSING'S LIFE AND WORKS. Study of his critical and controversial writings.



*Prerequisite: Courses 7-8 and 11-12. 2 hours, first semester.*

18. SCHILLER'S LIFE AND WORKS. Study of his historical prose, philosophical poems and aesthetic, critical writings.

*Prerequisite: Courses 7-8 and 11-12. 2 hours, second semester.*

19. GOETHE'S LIFE AND WORKS. Survey of his life, with special reference to his prose writings.

*Open to juniors and seniors. 2 hours, first semester.*

20. GOETHE'S FAUST. PARTS I AND II. Development of the Faust legend and the genesis of Goethe's Faust. Methods of Faust interpretation.

*Open to juniors and seniors. 3 hours, second semester.*

21. HEINE AND THE ROMANTIC SCHOOL. Lectures and readings.

*Open to juniors and seniors. 2 hours, second semester.*

22-23. COLLOQUIAL GERMAN. Discussions and themes based upon German life, customs and travel.

*Open by permission to students electing the advanced literary courses. 1 hour, through the year.*

24-25. GERMANIC PHILOLOGY.

a. Gothic.

Grammar. Ulfilas' translation of the Bible. Lectures upon the development of the German language.

b. Middle High German.

Grammar. Selections from the Niebelungenlied from Hartman von Aue, Wolfram von Eschenbach. Lectures.

*Open to seniors and graduates. 2 hours, through the year.*

## FRENCH

MISS BLACK

1-2. ELEMENTARY COURSE. Grammar, reading of short stories and plays by modern writers. Memorizing la Fontaine's *Fables*. Prose composition, conversation. Special attention given to oral work, pronunciation and conversation.

*Offered to freshmen who have presented no French at entrance. 3 hours, through the year.*

3-4. INTERMEDIATE COURSE. Grammaire Littéraire. Lectures on the history of French literature of the eighteenth century accompanied by collateral reading of representative French authors. Drill in letter writing. English translated into idiomatic French, dictation, composition. Certain ability to understand and use simple French in oral work required.

*Open to students who have presented one unit of French. 3 hours, through the year.*

5-6. COURSE IN THE FRENCH CLASSICS. Reading dramas of Racine, Corneille, the works of Boileau, Descartes, Pascal. Composition, conversation.

*Prerequisite: Course 3-4. 3 hours, through the year.*

7-8. THE PRECURSORS OF THE FRENCH ROMANTIC SCHOOL. Lectures on representative authors. Reading selections from Madame de Staël, Madame de Lafayette, Rousseau, Chateaubriand, Lamartine. Composition, conversation.

*Prerequisite: Course 5-6 or its equivalent. 2 hours, through the year.*

9-10. ORIGIN AND DEVELOPMENT OF THE FRENCH LANGUAGE. Lectures on the literature of the sixteenth century. Reading of selections from representative authors. Composition, conversation.

*Elective. Prerequisite: Course 3-4 or its equivalent. 2 hours, through the year.*

11-12. CLASSICAL TRAGEDIANS AND COMEDIANS. Lectures on Racine, Corneille, Molière, with a critical study of their works. Composition, conversation.

*Prerequisite: Course 5-6. 2 hours through the year.*

13-14. CONTEMPORARY LITERATURE. Rapid reading of current fiction and drama with discussions of modern tendencies in literature. Lectures. Essays.

*Elective. Prerequisite: Course 5-6 or its equivalent. 2 hours, through the year.*

15-16. ADVANCED FRENCH PROSE. Select English authors translated into idiomatic French. Through study of syntax, idioms and synonyms. Brunot: *Grammaire des Grammaires*. Composition, conversation.

*Elective. Prerequisite: Course 9-10 and recommended to those who wish to teach French. 1 hour, through the year.*

17-18. THE FRENCH DRAMA OF THE NINETEENTH CENTURY, with brief résumé of its earlier development. Rapid reading course. Composition based upon works read. Topics assigned for reports. Conversation.

*Elective. Prerequisite: Course 5-6. 2 hours, through the year.*

19-20. FRENCH EPICS. Lectures on *La Chanson de Roland*, *La Henriade*, *La Légende des Siècles*. Reading of the epics.

*Elective. Prerequisite: Course 17-18. 2 hours, through the year.*

21-22. CURRENT EVENTS. Discussion of political and literary questions of the day with supplementary reading of history, novels and magazine articles in relation to subjects. The course is strictly conversational.

*Elective, offered to graduates and students who have had Courses 5-6 and 15-16, or their equivalents. 1 hour, through the year.*

## ITALIAN

### MADAME DE VIVIE

1-2. ELEMENTARY COURSE. Grammar, prose composition. Reading of short stories and plays by modern authors. Memorizing of poetry. Conversation.

*Elective. 3 hours, through the year.*

3-4. INTERMEDIATE COURSE. Reading of modern Italian prose and of simple classical dramas. Grammar, prose composition. Conversation.

*Elective. Prerequisite: Course 1. 3 hours, through the year.*

## SPANISH

MISS BLACK

1-2. ELEMENTARY COURSE. Grammar. Reading of short stories and selections from Don Quixote. Special attention given to oral work, pronunciation and conversation.

*Elective. 3 hours, through the year.*

## ENGLISH

MR. PUTNAM, MISS COOLIDGE, MISS LINDSAY

D. ENGLISH COMPOSITION. A study of the principles of composition and rhetoric. Their application in short themes and long themes. Text book. Class room discussions. Individual conferences.

*Required of freshmen. 2 hours, through the year.*

1. THE SHORT-STORY. A reading course in the literature of the Short-Story. A study of its nature and development as a distinct form. Assigned readings. Criticisms. Discussions.

*Open to freshmen and specials. 3 hours, first semester.*

2. SHAKESPEARE. An intensive study of the idiom, poetry, dramatic structure, and character method of Shakespeare as exemplified in *The Merchant of Venice*, *Macbeth*, and *The Winter's Tale*. For such special students as do not intend electing English C, a separate section of this course will be organized, combining so far as practicable the purposes of course 2 and course C-2.

*Open to freshmen and specials. 3 hours, second semester.*

3. FORMS OF POETRY. A study of the nature of poetry and of its various forms as exemplified by the nineteenth century poets in England. Page's *British Poets of The Nineteenth Century* is used as the basis of study. Assigned readings. Critical reports. Discussions.

*Open to freshmen and specials. 3 hours, first semester. Given in alternate years.*

4. FORMS OF FICTION. A study of the nature of prose fiction and of its types and characteristics. Complete masterpieces chosen from representative English novelists are read. Critical reports. Discussions. Lectures.

*Open to specials and by special arrangement to freshmen and sophomores. 3 hours, second semester. Given in alternate years.*

C-1. CHAUCER. A study of the language and literature of Chaucer. Lectures on his life and times.

*Required of sophomores. 2 hours, first semester.*

C-2. SHAKESPEARE. A study of his development as a dramatist. A majority of his plays are read and discussed. Lectures. Reports. The course does not repeat the work of *English 2*.

*Required of sophomores. 2 hours, second semester.*

5. NARRATION. An advanced course in the rhetoric of feeling. A study of the principles of description and narration. Themes. Conferences. Lectures.

*Open to all who have completed English D. 2 hours, first semester.*

6. ARGUMENTATION. An advanced course in the rhetoric of thought. A study of the principles of exposition and argumentation. Text book. Themes. Discussions.

*Open to all who have completed English D. 3 hours, second semester.*

7-8. ADVANCED THEMES. A course designed to meet the individual needs of students specializing in composition. It consists exclusively of theme-writing under the immediate supervision of the instructor. Frequent conferences. Only a limited number of students will be admitted each semester.

*1 or 2 hours, first or second semester.*

B. HISTORY OF ENGLISH LITERATURE. An outline study of the development of English literature from *Beowulf* to Tennyson.

*Required of juniors. 2 hours, through the year.*

9. AMERICAN LITERATURE. An outline study of the development of American Literature. Lectures. Assigned readings. Reports.

*Open to sophomores, juniors, and seniors. 2 hours, first semester. Given in alternate years. Will be offered in 1913-1914.*

10. NINETEENTH CENTURY POETRY. A study of the romantic movement in English poetry from Burns to Kipling. Lectures. Assigned readings. Critical reports. The instructor reserves the privilege of confining the course to a group of poets or to the work of one poet.

*Open to sophomores, juniors, and seniors. 2 hours, second semester. Given in alternate years. Will be offered in 1913-1914.*

11-12. THE NOVEL. A study of the origin and development of prose fiction. Assigned reading of complete masterpieces of the representative novelists from Bunyan to DeMorgan. Reports. Lectures.

*Open to juniors and seniors. 3 hours, through the year. Given in alternate years. Will be omitted in 1913-1914.*

13-14. ANGLO SAXON. A reading course in the grammar and language of Old English. The first semester is mainly devoted to Anglo Saxon prose, and the second semester to Beowulf.

*Open to juniors and seniors. 2 hours, through the year. Given in alternate years. Will be offered in 1913-1914.*

15. THE ESSAY. A study of the origin, history, nature, and literature of the English essay from Bacon to the present time. Lectures. Assigned readings. Reports.

*Open to juniors and seniors. 2 hours, first semester. Given in alternate years. Will be omitted in 1913-1914.*

16. THE DRAMA. An intensive study of the origin and development of the English drama. Lectures. Readings from the great dramatists.

*Open to juniors and seniors. 3 hours, second semester. Given in alternate years. Will be omitted in 1913-1914.*



17-18. BROWNING. A seminar in the poetry and philosophy of Robert Browning. Lectures. Papers. Discussions.

*Open to juniors and seniors. 1 hour, through the year.*

## BIBLICAL LITERATURE

MISS BROWNSON, MISS WHITE

### D. HISTORICAL STUDY OF THE LIFE OF CHRIST.

*Required of freshmen. 1 hour, through the year.*

C. THE APOSTOLIC AGE. The organization of the Christian Church and the development of its life and literature during the first century.

*Required of Sophomores. 1 hour, through the year.*

B. OLD TESTAMENT HISTORY. Studies in the development of the Hebrew people, the growth of political institutions, the influence of other nations, the religious life, the literature.

*Required of juniors. 1 hour, through the year.*

A. OLD TESTAMENT PROPHECY. A study of the development and characteristics of prophecy, the place of the prophets in the life of Israel, the relation of prophecy to history, Messianic prophecy.

*Required of seniors. 1 hour, through the year.*

1. HEBREW POETRY. A study of the poetry of the English Old Testament, especially the Psalms, the Proverbs.

*Elective, open to juniors and seniors. 2 hours, first semester.*

2. HISTORICAL GEOGRAPHY OF PALESTINE. The land in its physical aspects, the place of Syria in history, the interpretation of the Bible by geographical study, detailed survey of the country.

*Elective, open to juniors and seniors. 2 hours, one semester.*

3. BIBLICAL ARCHAEOLOGY. Studies of the results of modern exploration in Biblical lands.

*Elective, open to juniors and seniors. 2 hours, one semester.*

## MATHEMATICS

MR. MARTIN

D-1. SOLID GEOMETRY. Theorems and constructions as given in Durell's *Solid Geometry*. Solution of numerous original exercises, including loci problems. Application to the mensuration of surfaces and solids.

*Required of freshmen. 3 hours, first semester.*

D-2. PLANE AND SPHERICAL TRIGONOMETRY. Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles. Proofs of principal formulas, in particular for the sine, cosine and tangent of the sum and difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines; the transformation of trigonometric expressions by means of these formulas. Solution of trigonometric equations. Theory and use of logarithms. Solution of right, oblique and spherical triangles and practical applications.

*Required of freshmen. 3 hours, second semester.*

1. HIGHER ALGEBRA. Permutations and combinations. Complex numbers with graphical representation of sums and differences. Determinants including the solution of linear equations. Numerical equations of higher degree and the theory of equations, with graphical methods, including Descartes' rule of signs and Horner's method.

*Students intending to pursue the courses in higher mathematics are required to elect this course. Prerequisite: Course D-2, or may be taken parallel with Course D-2. 2 hours, one semester.*

2. HISTORY OF MATHEMATICS. This course is offered in the belief that it is essential to a thorough understanding of elementary mathematics. It treats of the development of mathematics from the earliest known times to the invention of analytic geometry by Descartes in 1637. The subjects considered are number systems, numerals, arithmetic, algebra and geometry.

*Prerequisite: Course D-2. 2 hours, one semester.*

3-4. ANALYTIC GEOMETRY, PLAIN AND SOLID. Tanner and Allen's *Analytical Geometry* is used as a text-book.

*Prerequisite: Course D-2. 3 hours, through the year.*

#### 5-6. DIFFERENTIAL AND INTEGRAL CALCULUS.

*Prerequisite: Course 3-4. 3 hours, through the year.*

#### 7. HISTORY OF HIGHER MATHEMATICS.

*Prerequisite: Course 5-6, or may be taken parallel with Course 5-6. 2 hours, one semester.*

8. THE TEACHING OF ELEMENTARY MATHEMATICS. This course is intended for those who wish to teach mathematics in High Schools.

Young's *Teaching of Mathematics* is used as a text-book. Instruction is given in the explanation of Mathematical processes to elementary classes while opportunity is afforded to observe teaching in the city High Schools.

*Prerequisite: Course 5-6, or may be taken parallel with Course 5-6. 2 hours, one semester.*

### ASTRONOMY

MR. MARTIN

1. ASTRONOMY, descriptive and historical. Elementary facts and principles with mathematical exercises. Location of principal constellations with field and laboratory work.

The College owns a good 4 $\frac{1}{4}$  inch refracting telescope, which is at the disposal of the student for observing the sun, moon, stars and nebulae.

*Prerequisite: Mathematics, Courses D-1 and D-2. 2 hours, one semester.*

### PHYSICS

MISS HOLCOMB

1-2. GENERAL EXPERIMENTAL PHYSICS. Mechanics, sound, heat, light, electricity and magnetism. Illustrated lectures, recitations and problems. 3 hours a week; laboratory work, one 3 hour period a week. Text-book: Carhart's *College Physics*.

*Elective. 3 hours, through the year.*

This course or courses 1 and 2 in chemistry required of students in the freshman or sophomore year.

3. SOUND. The physical theory of sound, musical instruments, and the acoustics of buildings. A lecture and recitation course. No laboratory work. This course is especially for students in music and expression.

*1 hour, first semester.*

4. LIGHT. Recitations, supplemented by illustrated lectures and library study. Text-book: Edser's *Light for Students*.

*Prerequisite: Course 1-2. 2 or 3 hours, first semester, alternating with Course 7.*

5. LIGHT. Laboratory work and special topics planned especially for students who expect to teach physics.

*Open only to those who elect Course 4. One 2 hour period a week, first semester.*

6. HEAT. Recitations, supplemented by experimental demonstrations and library study. Text-book: Edser's *Heat for Advanced Students*.

*Prerequisite: Course 1-2. 2 hours, second semester, alternate years.*

7. ELECTRICITY AND MAGNETISM. The course includes a study of the practical applications of electricity.

*Prerequisite: Course 1-2. 2 hours, one semester or 1 hour through the year.*

8. ELECTRICITY AND MAGNETISM. Laboratory work; the setting up of apparatus in wireless telegraphy and similar experiments.

*Open only to those who elect Course 7. One 2 hour period, one semester.*

9. GENERAL PHYSICS. A course planned for those expecting to teach Science.

*Prerequisite: Course 1-2. 1 or 2 hours, one semester.*

10. A READING COURSE. History of Physics, or Modern Research work as reported in the magazines.

*For advanced students only.*

## CHEMISTRY

— MISS BUTTERFIELD

1. GENERAL INORGANIC CHEMISTRY. Lectures and recitations on the history, occurrence, preparation, properties and uses of the more important elements and their compounds. In the laboratory the student prepares and transforms the chief substances studied. A few simple quantitative experiments are performed. Text-book: Stoddard's *Introduction to General Chemistry*.

*3 hours, first semester. Laboratory work, 3 hours weekly.*

This course, or course 1-2 in physics, required of students in the freshman or sophomore year.

2. QUALITATIVE ANALYSIS. Lectures, recitations, laboratory work. Ample practice in identifying unknown substances is given to each student. The text-book used is Stoddard's *Qualitative Analysis*.

*Elective. Prerequisite: Course 1. 3 hours, second semester.*

This course must be taken by those offering Course 1 as required science.

3. ORGANIC CHEMISTRY. Lectures and recitations upon typical organic compounds, their relations and transformations. Text-books: Remsen, and Perkin and Kipping.

*Elective. Prerequisite: Course 1. 2 hours, first semester.*

4. ORGANIC CHEMISTRY. Laboratory practice. Simple organic compounds are studied and the synthesis of more complex substances from these is taken up. In every preparation attention is given to quantitative results. Text-books used are Orndorff's *Manual of Organic Chemistry* and Gattermann's *Practical Methods of Organic Chemistry*. Students electing Course 3 are urged to take this course if possible.

*1 or 2 hours, first semester. Prerequisite: Courses 1, 2 and 3.*

5. QUANTITATIVE ANALYSIS. Laboratory work. A few lectures on laboratory methods are given.

*2 hours, second semester. Prerequisite: Course 1.*

6-7. LECTURES ON THEORETICAL CHEMISTRY. In this course a systematic study is made of the atomic, kinetic and electrolytic theories of the constitution of matter.

*Elective. Prerequisite: Courses 1, 2, 3 and 4. 1 hour, through the year.*

8. ADVANCED ORGANIC CHEMISTRY. In this course two hours a week are devoted to lectures on methods in organic chemistry. Each student is assigned a problem in laboratory which she solves according to methods used in original research. An organic compound whose composition is unknown is examined and its empirical and structural formulas are determined. This determination involves the application of the most important laboratory methods used in organic research, such as combustions, molecular weight determination, etc. It is carried on independently by the student. After the correct solution of this problem, opportunity is offered the student of starting a problem in original work. The course is especially qualified to fit students for independent research and has that end in view.

*Prerequisite: Courses 1, 2, 3, 4, 5.*

9-10. PHYSICAL CHEMISTRY. Lectures and recitations.

*Prerequisite: Courses 1 and 2. 1 hour, through the year.*

11. SANITARY CHEMISTRY. Air, water and food analysis. A study of the application of chemistry to problems of public health.

*Prerequisite: Courses 1, 2, 3, 4 and 5.*

12. TEACHING OF CHEMISTRY. This course is designed for those intending to teach chemistry or for those wishing a comprehensive review of general chemistry with practice in handling special apparatus. The student must be able to perform difficult experiments in demonstration and to take charge of some of the laboratory work in Courses 1 and 2.

*1 or 2 hours. Open to seniors and others by special permission only.*

## BIOLOGY

MISS BUTTERFIELD

1-2. GENERAL BIOLOGY. Two lectures and one recitation per week, supplemented by one laboratory period of two hours. The course has been arranged especially for those who desire a general knowledge of biology as part of a liberal education as well as for those who are preparing for advanced work. Field trips will be taken.

*Elective, open to all classes. 3 hours, through the year.*

3-4. GENERAL BOTANY. Two lectures and one recitation per week, supplemented by one laboratory period of two hours. This course treats of plant life from the algae to the phanerogams inclusive. The structure and development of certain plants are studied from seed germination to fruit formation. Students are trained to recognize the common flowers from their botanical structure and values.

*Elective, open to all classes. 3 hours, through the year.*

5. SYSTEMATIC INVERTEBRATE ZOOLOGY. This course consists of lectures and laboratory work on Protozoa, Porifera, Cœlenterata, Vermes, Echinodermata, Mollusca and Arthropoda.

*Elective, open to all students. 3 hours, first semester, (2 lectures, 1 recitation, laboratory period.)*

6. VERTEBRATE ZOOLOGY. The student becomes familiar with a series of types of vertebrates, studying the comparative anatomy and progressive modifications of a fish, reptilia, frog, bird and mammal.

*Elective. Prerequisite: Course 5. 3 hours, second semester, (2 lectures, 1 recitation, laboratory period.)*

7. ADVANCED VERTEBRATE ZOOLOGY AND PHYSIOLOGY. In this course the anatomy and physiology of a typical mammal are studied. The histology of the various tissues is worked out and the physiology of muscles and nerves is investigated.

*Elective. Prerequisite: Course 1-2. 2 hours, first semester. Laboratory work 4 hours weekly.*

8. STRUCTURE OF CELL AND PROTOPLASM. This course includes a study of numerous protozoa; the structure of a cell; development phenomena; cell division, spermatogenesis; oögenesis.



*Elective. 2 hours, second semester. Laboratory work, 4 hours weekly.*

9-10. THEORETICAL BIOLOGY. The lectures deal largely with the history of the development of modern biology. The works of Lamarck, Darwin, Weismann, and De Vries are discussed in connection with the theory of evolution.

*Elective. 1 hour, through the year.*

11-12. EXPERIMENTAL MORPHOLOGY. The object of the course is to familiarize the student with some of the more important problems of experimental morphology and with the methods of dealing with them. The work consists of lectures and laboratory experiments.

*Elective. 2 hours, through the year.*

13-14. HISTOLOGY AND MICROSCOPICAL TECHNIQUE. The work consists of laboratory practice in the preparation of material for microscopical study. This course is intended for those who expect to teach or do advanced work in biology.

*Elective, open to students by special permission. 2 hours laboratory work, through the year.*

*Offered only if a sufficient number of students take it to warrant the course being given.*

15. DENDROLOGY. A study of our common trees. The course will consist of one out-of-door trip per week of about an hour and a half together with independent observation on the part of the student. About ninety trees will be studied in their summer and winter aspects.

*1 hour, first semester.*

16. ORNITHOLOGY. Lectures on the habits, homes, coloration, etcetera, of birds. There will be a few field trips in the spring.

*1 hour, second semester.*

17. BOTANY. A course in botany for those who have offered botany for entrance, or who have completed *Biology* 1-2.

*2 hours, second semester.*

18. A brief course in general biology based on Conn's text book.

*1 hour, through the year.*

## EXPRESSION

MISS KERST

The aim of this department is to foster in the student a larger appreciation of the truth and beauty of great prose and verse, and at the same time to develop the power of expressing to others the results of such literary work. Expressional study of the best kind cultivates beauty of speech, trains the intellect, educates the emotions and puts the student into full command of the forces of body and mind.

Elective courses are offered for all college classes, and private work may be arranged for by consultation with the instructor. Persons not registered for courses in other departments may become special students in Expression.

Students' recitals are occasionally given.

1-2. GENERAL PRINCIPLES OF VOCAL EXPRESSION. Principles of articulation. Oral gymnastics for distinct, firm, fluent articulation. Physiology of vocal organs with exercises for developing the voice and improving its quality, also for correct breathing. Selections are analyzed and students are assigned definite work for presentation before the class.

*Elective, open to freshmen. 1 hour, through the year.*

3-4. VOCAL TECHNIQUE. The sonant properties of speech. Emphasis, inflection, phrasing, quality, force, pitch, time, pause, rhythm.

This is distinctly a practice course. Platform recitations are made by the student for criticism.

*Elective, open to sophomores. 1 hour, through the year.*

5-6. INTERPRETATIVE READING. Shakespeare, Browning, Tennyson.

*Elective, open to juniors. 1 hour, through the year.*

7-8. PRINCIPLES OF VOCAL EXPRESSION AND LITERARY INTERPRETATION. Studies in paraphrasing; types of utterance; musical properties of speech; vocal technique; the relation of literature to recitation.

*Elective, open to seniors. 1 hour, through the year.*

9-10. DRAMATIC APPRECIATION. A study of the history of dramatic art and the theory of dramatic construction. Analysis of plays of the different periods in the history of the drama.

*Elective, open to all college students. 1 hour, through the year.*

## PHYSICAL TRAINING

MISS BROWN

1-2. GYMNASTICS, including marching, corrective exercises, Indian clubs, wands and games. Outdoor work on the athletic field in the spring and fall.

*Required of freshman. 1 hour, through the year.*

3-4. GYMNASTICS. A continuation of Course 1-2, with advanced work along the same lines.

*Required of sophomores. 1 hour, through the year.*

5-6. AESTHETIC DANCING. A study of the interpretation of music through dancing. Original work required.

*Elective, open to juniors, seniors and specials. 1 hour, through the year.*

7-8. PLAYS AND GAMES. A study of the games and folk dances used in social service and playground work. The practical side of the course is emphasized and the student is required to teach in the class.

*1 hour, through the year.*

9-10. APPLIED HYGIENE. Lectures on personal hygiene, domestic and public problems of sanitation and diet, including a short course in *First Aid to the Injured*.

*General elective. 1 hour, through the year.*

## HISTORY AND THEORY OF MUSIC

MR. WHITMER

1-2. HARMONY. Study of chords in both modes. Ear training, analysis, harmonization. Immediate application of knowledge to composition of pieces in simple forms.

*1 hour, through the year.*

3-4. COUNTERPOINT AND COMPOSITION. Early and modern contrapuntal methods contrasted. Detailed study of melodic and rhythmic construction, with practical application to composition.

*Open to students who have taken Course 1-2. 1 hour, through the year.*

5-6. DOUBLE COUNTERPOINT, CANON AND FUGUE. Analysis and composition.

*Open to students who have taken Courses 1-2 and 3-4. 1 hour, through the year.*

7-8. MUSICAL FORMS AND FREE COMPOSITION. Analysis of both normal and radical musical formations with immediate practice. Development of freedom in use of material.

*Prerequisite: Courses 1-2 and 3-4. 1 hour, through the year.*

9-10. ORCHESTRATION. Detailed theoretical and practical study of orchestral instruments, their individual characteristics and their relation to the score. Score reading.

*Prerequisite: Courses 1-2, 3-4 and 5-6. 1 hour, through the year.*

11-12. HISTORY OF MUSIC. Study of the great works, composers and virtuosi. Development of notation. Comparative study of musical periods.

*Open to students who have taken or are taking Course 1-2. 1 hour, through the year.*

13-14. HISTORY OF MUSIC. Abridged course on basis of one hour recitation.

*1 hour, through the year.*

14-15. APPRECIATION OF MUSIC. A free and untechnical study of men, masterpieces and criticism. Brief programs are given in connection with the lectures.

*Open to all students. 1 hour, through the year.*

The College believes in the cultural power of music and in its value in the higher education of women. It expects to enlarge the courses and to keep music on the high intellectual plane which is increasingly accorded to it by colleges.

Courses in the history and theory of music are counted toward the baccalureate degree. Practice courses may be so counted if combined with a proper amount of history and theory.

Information concerning courses in all departments of music may be found on pages 73 to 84.

## LECTURES

The following list comprises the lectures delivered to students as part of the academic work. They are given at a morning lecture hour and attendance is required.

### 1912-1913

Mr. Charles Bregg	Dramatic Art
Dr. Paul Pearson	James Whitcomb Reilly Program
	Place of Poetry in American Life
Dr. Samuel Fisher	The Popularity of Pretenders
Rev. H. L. Hodges	Sermon—Day of Prayer for Colleges
Dr. Matthew Riddle	Reminiscences of Old Pittsburgh
Mon. Eugene Tournier	France of To-day
Dr. Robert Christie	Robert Burns
Dr. H. D. Lindsay	The Psychology of Every Day Living
Miss Cora Helen Coolidge	Mary Lyon and Mt. Holyoke
Miss Margaret Henry	The Southern Mountaineer
Miss Lucy Robertson	The Student Volunteer Movement
Dr. H. W. Halsey	The Awakening in China
Miss Margaret Horne, Violinist	Concert Program

Dr. Herbert Davis . . . . .	The Quest for Happiness
Mr. John Z. White . . . . .	The French Revolution
Miss Cora Helen Coolidge . . . . .	New Vocations for Trained Women
Miss Mary W. Brownson . . . . .	French Life of Mary Stuart
Dr. Joseph M. Duff . . . . .	Traditions of Western Pennsylvania
Mrs. Mary Roberts Rhinehart . . . . .	The Short Story

## RELIGIOUS AND SOCIAL LIFE

The College is thoroughly Christian in spirit and influence, but undenominational in its management and instruction. Students are expected to be present at daily prayers in the Chapel, and resident students to be regular attendants at church on Sunday mornings and at the Sunday Vesper services in Berry Hall. The Young Women's Christian Association maintains a mid-week prayer meeting and weekly Bible classes; and it contributes to mission work at home and abroad. Systematic Bible study is one of the college requirements and four hours of such work are prescribed along the lines of literature and history.

The daily life of the residence halls is regulated by student government, under the direction of the house president and executive committee, who are elected by the students, subject to the approval of the Dean.

The College emphasizes religious and social life, for it believes both are essential parts of a liberal education. Arrangements for the comfort and well-being of resident students are made by the Dean and the social plans of all classes are submitted to her before action is taken. General receptions for students and their friends are held at mid-year and in connection with the Commencement exercises. Smaller gatherings of faculty and students occur at intervals throughout the year. The traditional College celebrations are those of Hallowe'en, Christmas, Saint Valentine's Day, and May Day, participated in by the student body. The separate classes take the initiative in more formal entertaining at suitable times. The Young Women's Christian Association gives a reception to new students at the beginning of the year, and conducts various benefits during the year for the support of its benevolent and missionary work.

## STUDENTS' CLUBS AND ASSOCIATIONS

The Student Government Association is organized to control such matters of college interest and discipline as may be delegated to it by the Faculty. Resident students have a branch of the Association which has in charge the interests of the dormitory life.

The Omega Society has a membership chosen with respect to scholarship and literary ability. Its work is the promotion of an interest in literature and the providing of opportunities for practice in the art of expression. The Society holds occasional open meetings for the presentation of special programs.

The Young Women's Christian Association holds weekly prayer meetings and monthly missionary meetings. It has organized Bible classes. The Association maintains a Bible Reader and a Kindergarten in India, and it is responsible for the equipment of a room in the Young Women's Christian Association Building in Pittsburgh. Delegates are sent to the annual conventions and an active part is taken in all work looking toward the strengthening of the religious forces of the institution.

The Athletic Association is a wide-awake organization which affords the students of the College an opportunity to play basketball, tennis and all out-door games. It is the aim of the Association to foster the growth of college spirit and also to help with the running expenses of the tennis court and the basketball teams. Through the efforts of the members some very valuable apparatus has been purchased for the gymnasium.

The Dramatic Club has for its work the critical study of pieces of dramatic literature as a means of personal culture for its members, and the occasional presentation of carefully selected plays. The principal event of the club year is the production of Senior Dramatics at Commencement time. In 1912 the play presented was *Midsummer Night's Dream*.

The Glee Club furnishes an excellent opportunity for training in voice. The club responds to many calls for its service at college affairs and occasionally in the city, and gives an annual concert. It has an enthusiastic membership and its work is much valued in the college life.



The Mandolin Club is open to students who play the mandolin, guitar or violin. An annual concert is given in connection with the Glee Club and music furnished, not only for college functions, but for entertainments given in the city.

### SCHOLARSHIPS AND PRIZES

Two scholarships are open to students of ability who expect to pursue regular courses of study, but who need financial aid in meeting the necessary expenses of a college education.

1. THE HELEN E. PELLETREAU SCHOLARSHIP. A fund has been raised by the Alumnæ to establish a scholarship in honor of Miss Helen E. Pelletreau, for many years the able and beloved President of the College. This fund has not yet been made up to the full amount necessary, and contributions to it are earnestly solicited. They should be sent to Miss Eleanor J. Stevenson, 3501 Fifth Avenue, Pittsburgh.

2. THE MARY HAWES NEVIN SCHOLARSHIP. To fulfill a wish expressed by the late Mary Hawes Nevin, an alumna of the Class of 1896, her family has given the sum of \$6,000 to establish a scholarship to bear her name, and thus perpetuate the memory of her beautiful life and her interest in young women ambitious for the advantage of a college course.

The Helen E. Pelletreau Scholarship is awarded by the Scholarship Committee of the Alumnæ Association, the Mary Hawes Nevin Scholarship, by Mrs. Jolin I. Nevin. These scholarships are held for one year, but may be renewed upon application.

### CORRESPONDENCE

Business inquiries and letters concerning the entrance of students should be addressed to Pennsylvania College for Women, Pittsburgh, Pa. Personal letters or particular communications of parents in regard to their daughters should be sent to the President, Rev. Henry D. Lindsay, D.D., or to the Dean, Miss Cora Helen Coolidge.

## TEACHERS' REGISTRY

The College is deeply interested in the welfare of its Alumnae and is willing to coöperate actively with those who desire to secure teaching positions. A registry will be kept for the purpose and eligible candidates will be recommended to schools desiring to fill vacancies in their faculty lists.

### FEES

	PER YEAR
Tuition . . . . .	\$125.00
Room rent, including light and heat . . . . .	100.00
Table board . . . . .	175.00
Physical Training—	
Private lessons, twice a week . . . . .	\$100.00
Private lessons, once a week . . . . .	60.00
In classes of four, twice a week . . . . .	25.00
Expression—	
Private lessons, twice a week . . . . .	100.00
Private lessons, once a week . . . . .	60.00
Laboratory—	
Biology 1-2 Physics 1-2 or Chemistry 1 and 2 . . . . .	10.00
Advanced science course fee in proportion to material used.	
Tutoring, per hour . . . . .	1.00
Private Examination . . . . .	2.00
Diploma—	
Bachelor of Arts . . . . .	5.00
Master of Arts . . . . .	10.00
Laundry, plain pieces, per dozen . . . . .	.50
Luncheon, for day students . . . . .	.25
Boarding during vacation, per week . . . . .	7.00

### REGISTRATIONS FOR PAYMENT

Tuition will be remitted to resident students who are daughters of ministers. A reduction of \$25.00 will be made to day students who are daughters of ministers or of teachers.

All bills for boarding, tuition and extra are due, one-half at the beginning of the college year and the remainder on February 1. Checks should be made payable to Pennsylvania College for Women.

Ali arrangements for the study of music are made for the entire term. Lessons cannot be discontinued except for valid reason and due notice must be given. No deduction will be made for lessons lost by the student.

As engagements with instructors and other provisions for the education of students are made by the College for the entire year in advance, *no deduction can be made in the charge for tuition for either resident or day students.*

No degrees will be conferred unless all bills due to the College by the candidate have been paid.

### APPLICATION FOR ROOMS

All applications will be registered and rooms not engaged by former students will be assigned according to the date of application. There are a few double rooms, but the bedrooms are generally arranged in suites of two single rooms. Any information concerning the rooms will be given upon application to the Dean.

Resident students are received for *the year only*, or so much of it as remains at the time of entrance. Parents or guardians will be held responsible for full payment for resident students from *the date at which they had engaged to enter their daughters or wards until the close of the year in June, and no deduction will be made in bills because of absence or premature withdrawal except in case of serious and protracted illness, when the loss for board and room will be equally shared.*

All unnecessary wear of carpets, furniture, etc., is charged to the students occupying the room.

## DEGREES CONFERRED IN 1912

### BACHELOR OF ARTS

Bickel, Florence Emma . . . . .	Pittsburgh
Cameron, Frances Alden . . . . .	Edgewood Park
Chaddock, Edith Melvina . . . . .	Pittsburgh
Davis, Eleanor . . . . .	Oakmont
Davies, Elizabeth Frances . . . . .	Munhall
Estep, Elvira . . . . .	Pittsburgh
Gray, Mary Rariden . . . . .	Pittsburgh
Grooms, Helen Herd . . . . .	Pittsburgh
Hardy, Mary Rebecca . . . . .	Pittsburgh
Hickson, Hazel Fay . . . . .	Butler
Keen, Mary Catherine . . . . .	Baltimore, Md.
Kim, Martha Amanda . . . . .	Pittsburgh
Lindsay, Lillie Arndt . . . . .	Pittsburgh
McHenry, Lilian Belle . . . . .	Washington
O'Neill, Esther Amelia . . . . .	Altoona
Pierce, Beulah Vera . . . . .	Pittsburgh
Sands, Martha Josephine . . . . .	Pittsburgh
Sharp, Daisy Cochrane . . . . .	Pittsburgh
Shutt, Maude Etta . . . . .	Warren
Spence, Carrie Cosette . . . . .	Uniontown
Stahlman, Calla Loree . . . . .	Vandergrift

## CERTIFICATES GRANTED IN 1912

### CERTIFICATES IN MUSIC

Bickel, Florence Emma . . . . .	Pittsburgh
Sands, Martha Josephine . . . . .	Pittsburgh

### CERTIFICATES IN SOCIAL SERVICE

Bickel, Florence Emma . . . . .	Pittsburgh
Cameron, Frances Alden . . . . .	Edgewood Park
Estep, Elvira . . . . .	Pittsburgh
Gray, Mary Rariden . . . . .	Pittsburgh
Grooms, Helen Herd . . . . .	Pittsburgh
Hickson, Hazel Fay . . . . .	Butler
Spence, Carrie Cosette . . . . .	Uniontown

## STUDENTS IN 1912-1913

### GRADUATE STUDENT

Stahlman, Calla Loree . . . . . Vandergrift

### SENIORS

Atkinson, Helen Faye . . . . . Wilkinsburg  
 Blair, Helen Eliza . . . . . Pittsburgh  
 Cameron, Christine Ethloine . . . . . Edgewood Park  
 Clark, Laila Lenore . . . . . Pittsburgh  
 Colestock, Claire . . . . . Pittsburgh  
 Craig, Mary Helen . . . . . Wilkinsburg  
 Fletcher, Louise Emily . . . . . Jamestown, N. Y.  
 Geiselhart, Emma Henrietta . . . . . Pittsburgh  
 Gray, Jeanne Maclean . . . . . Pittsburgh  
 Keys, Florence Rebecca . . . . . Clarksville  
 Kingsbacher, Florence . . . . . Pittsburgh  
 Lavman, Lucy Abbott . . . . . Pittsburgh  
 Minor, Margaret . . . . . Pittsburgh  
 McCague, Elizabeth Snowden . . . . . Sewickley  
 Rosenbloom, Esther Gertrude . . . . . Braddock  
 Titzell, Marguerite Gates . . . . . Kittanning  
 Wayne, Sylvia D. . . . . Pittsburgh  
 Weihe, Elsie Naomi . . . . . Connellsville  
 Wilson, Grace McMaster . . . . . Pittsburgh  
 Young, Martha Elizabeth . . . . . Vandergrift

### JUNIORS

Boggs, Marjoire Annette . . . . . Pittsburgh  
 Brown, Margaret Hardy . . . . . Pittsburgh  
 Brownlee, Janet Lowrie . . . . . Washington  
 Burt, Charlotte Pauline . . . . . Crafton  
 Colebrook, Adeline Arnold . . . . . Pittsburgh  
 Goeddel, Gertrude Elizabeth . . . . . Pittsburgh  
 Husband, Juanita Marie . . . . . Mt. Pleasant  
 Knight, Phoebe . . . . . Clairton  
 Kochersperg, Josette . . . . . Jamestown, N. Y.  
 McWilliams, Mildred Margaret . . . . . Pittsburgh  
 McBurney, Mary Marguerite . . . . . Canonsburg  
 Plympton, Giulietta Adelinda . . . . . Pittsburgh

Rider, Hazel Nancy . . . . .	Uniontown
Rutherford, Anna Margaret . . . . .	Washington
Sander, Helen Marguerite . . . . .	Pittsburgh
Savage, Mary Evans . . . . .	Homestead
Stewart, Marjory . . . . .	Pittsburgh
Williams, Ethel Mae . . . . .	Glassport

## SOPHOMORES

Atkinson, Merle . . . . .	Wilkinsburg
Burleigh, Lorna . . . . .	Pittsburgh
Cameron, Elizabeth Charlotte . . . . .	Edgewood Park
Campbell, Janet Douglas . . . . .	Pittsburgh
Davies, Grace M. . . . .	Pittsburgh
Estep, Mary Hall . . . . .	Pittsburgh
Gowans, Marjorie Dorthea . . . . .	Pittsburgh
Jeffrey, Mary Ruth . . . . .	Pittsburgh
Johnston, Jane . . . . .	California
Kimball, Louise Lytle . . . . .	Pittsburgh
Kindl, Frances Louise . . . . .	Pittsburgh
Losa, Olga Emilie . . . . .	Coraopolis
Morris, Virginia Iris . . . . .	Edgewood Park

## FRESHMEN

Bair, Ethel Cordelia . . . . .	Edgewood Park
Bannerot, Alberta Emma . . . . .	Pittsburgh
Boale, Frances Eleanor . . . . .	Vandergrift Heights
Crouse, Rebekah . . . . .	Sharpsburg
Errett, Dorothy . . . . .	Carnegie
Frame, Gertrude Levis . . . . .	Pittsburgh
Gaw, Edna McConnell . . . . .	Pittsburgh
Geary, Rosemarie . . . . .	Wilkinsburg
Gibbons, Martha . . . . .	Butler
Greer, Alice Margaret . . . . .	Canonsburg
Keller, Ruth . . . . .	New Kensington
Laidlaw, Alice Marie . . . . .	Edgewood Park
Lce, Margaret Marie . . . . .	Wilkinsburg
Lewis, Leora Madeline . . . . .	Pittsburgh
Martin, Melba R. . . . .	Pittsburgh
Obendorf, Marie F. . . . .	Pittsburgh
Riggs, Jean Stewart . . . . .	Wellsville, O.

Robb, Mary Kathryn . . . . .	Wilkinsburg
Slater, Amelia Olive . . . . .	Wilkinsburg
South, Seba Graham . . . . .	Sewickley
Steele, Helen Elizabeth . . . . .	Pittsburgh
Thompson, Helen Leighton . . . . .	Pittsburgh
Wilson, Florence . . . . .	Pittsburgh
Woodrow, Grace De Haven . . . . .	Pittsburgh
Weihe, Lillian Margaret . . . . .	Connellsville

### STUDENTS IN SPECIAL COURSES

Allderdice, Louise . . . . .	Pittsburgh
Bailey, Anna McGill . . . . .	Philadelphia
Bamford, Martha Gordon . . . . .	Midway
Borland, Edna Rebecca . . . . .	Washington
Blackburn, Ruth . . . . .	New Kensington
Burkharr, Clarissa . . . . .	Pittsburgh
Chalmers, Helen . . . . .	Wilkinsburg
Cooper, Mildred . . . . .	Unity
Connick, Louise . . . . .	Pittsburgh
Dutson, Mary . . . . .	Pittsburgh
Early, Cora P. . . . .	Pittsburgh
Evans, Mary Jane . . . . .	Pittsburgh
Finkelpearl, Isabella . . . . .	Pittsburgh
Foster, Mary Elizabeth . . . . .	Crafton
Goerley, Grace . . . . .	Braddock
Haines, Helen McCleary . . . . .	Butler
Henry, Josephine . . . . .	Pittsburgh
Hill, Leila . . . . .	Pittsburgh
Homer, Susie . . . . .	Duquesne
Hudson, Sarah . . . . .	Pittsburgh
Jennings, Mrs. O. E. . . . .	Pittsburgh
Kronert, Martha J. . . . .	Pittsburgh
Latham, Margaret . . . . .	Pittsburgh
Lee, Virginia . . . . .	Pittsburgh
Little, Alice . . . . .	Braddock
Longanecker, Caroline Mathiot . . . . .	Pittsburgh
Mahey, Jeanne Cyrene . . . . .	Crafton
McCaffrey, Bessie Marion . . . . .	Pittsburgh
McGrew, Rosemma . . . . .	Crafton
Messner, Miriam B. . . . .	Warren
Miller, Ruth Emma . . . . .	Fairmont, W. Va.
Morse, Lucile . . . . .	Pittsburgh



Powell, Lenore . . . . .	Pittsburgh
Rogers, Mrs. R. C. . . . .	Pittsburgh
Schiller, Gretchen . . . . .	Pittsburgh
Storer, Mrs. Norman . . . . .	Pittsburgh
Stewart, Ida Adella . . . . .	Wilkinsburg
Stevenson, Mrs. Wm. T. . . . .	Pittsburgh
Stevenson, Euphemia . . . . .	Pittsburgh
Stuckslager, Helen Beam . . . . .	McKeesport
Watkins, Mary Anna . . . . .	Parnassus
Weston, Anna Mildred . . . . .	Gallitzin
Wetzel, Daisy F. . . . .	Pittsburgh
Worthington, Jean . . . . .	Pittsburgh
Wright, Hester McEldowney . . . . .	Pittsburgh

## ALUMNAE ASSOCIATION

The Association has its headquarters at the College and holds its annual meeting in the Assembly Hall on the Friday preceding Commencement day. It publishes annually the *Alumnæ Recorder*, containing a list of graduates, corrected by the latest information obtainable, and many items of interest concerning *Alumnæ* and former students.

The officers of the Association for the year 1912-1913 are:

President—Mrs. George Wilmer Martin, '92.

Vice-President—Mrs. George Porter, '99.

Secretary—Miss Hilda Sadler, '03.

Treasurer—Miss Elizabeth McCague, '98.

The Association is fully in sympathy with college plans and purposes and manifests its feeling in very practical ways. Three clubs of recent *Alumnæ* have been organized, members of the classes between 1890 and 1900 forming Decade Club I, graduates from 1900 to 1911 constituting Decade Club II and graduates from 1911 on forming Decade Club III. The *Alumnæ* Lecture Committee has again undertaken to raise and administer a fund by means of which lectures may be given in the Assembly Hall for the benefit of undergraduates and *Alumnæ*.

**SCHOOL OF SOCIAL SERVICE**



## **COURSES IN SOCIAL SERVICE**

Special courses in Social Service are open to students who may elect them as part of the work leading to the degree of Bachelor of Arts, or to well prepared special students.

In these days of social awakening society demands the service of educated women. In the home and church and in neighborhood groups are needed women who are familiar with the best methods of philanthropy. In the public school, which promises to become the central agency for social reform, are needed teachers with the social view point and the spirit of service. In many kinds of professional, civic and philanthropic work the demand for workers with college education is greater than the supply. The college woman of today, not content to spend years in studying for cultural satisfaction only, responding to the spirit of the times, is eager to make her acquirements in knowledge and training count for the general good.

In its courses in Social Service the college recognizes both the demands of the times and of the student. Nowhere are the mental training and broad knowledge offered by a college course of more practical use than in so called "social work." By means of such special training as is offered in these courses, supplementing the arts and the social science, the student can relate all her studies to social work. To the special student, as well as to the regular student all the resources of the college are open, as far as her limited time will allow her to take advantage of them.

The full course covers two years. The program of the first year is planned to give a general outlook over the field of social endeavor. To this end weekly visits of observation are made to institutions. In the class room the causes of poverty, the history of philanthropy and the principles underlying charitable agencies (including those visited) are studied. The program of the second year is planned to give detailed information and practice. The student goes weekly to a philanthropic or civic agency and works under the direction of one of Pittsburgh's experienced social workers. In the class room are studied methods of caring for the needy by public institutions, by organized charity and by individuals. A third year is arranged to meet the needs of those who, having begun the study in the sophomore year

decide to enter social work professionally and feel their need of additional study and practice.

For the certificate in Social Service, economics and sociology are required. Biology, psychology, ethics, history of education, etc., are recommended. Modern languages, music, and physical training are valuable aids in practical work. In this connection attention is called to a class in *Education through Games and Play*, which is planned with reference to the needs of students training for club work.

Pittsburgh, with its great industries and its diversified philanthropies, is an unusual field for observation, investigation and practical work. Many institutions and agencies coöperate with the college in these courses, and many experienced social workers give individual coöperation in the form of lectures and instructive talks at the College or at the places where they work.

Special students are admitted to social service courses. The applicant for admission must be eighteen years old. She must have a high school diploma or its equivalent and satisfactory references to show that she has character and purpose.

A certificate is given to students completing this course. It shows (1) the ground covered in the study of theory,—text-books and supplementary reading; (2) the actual practice work done by the student; (3) related subjects studied in other special courses or in the regular courses of the College; (4) the subject of a thesis based upon knowledge gained by the student in an original investigation.

For Social Service with related branches of study, the regular college tuition will be charged. The College dormitory is open to students in these courses.

## **MUSIC SCHOOL**





## **FACULTY**

HENRY D. LINDSAY, D.D., PRESIDENT

CORA HELEN COOLIDGE, DEAN

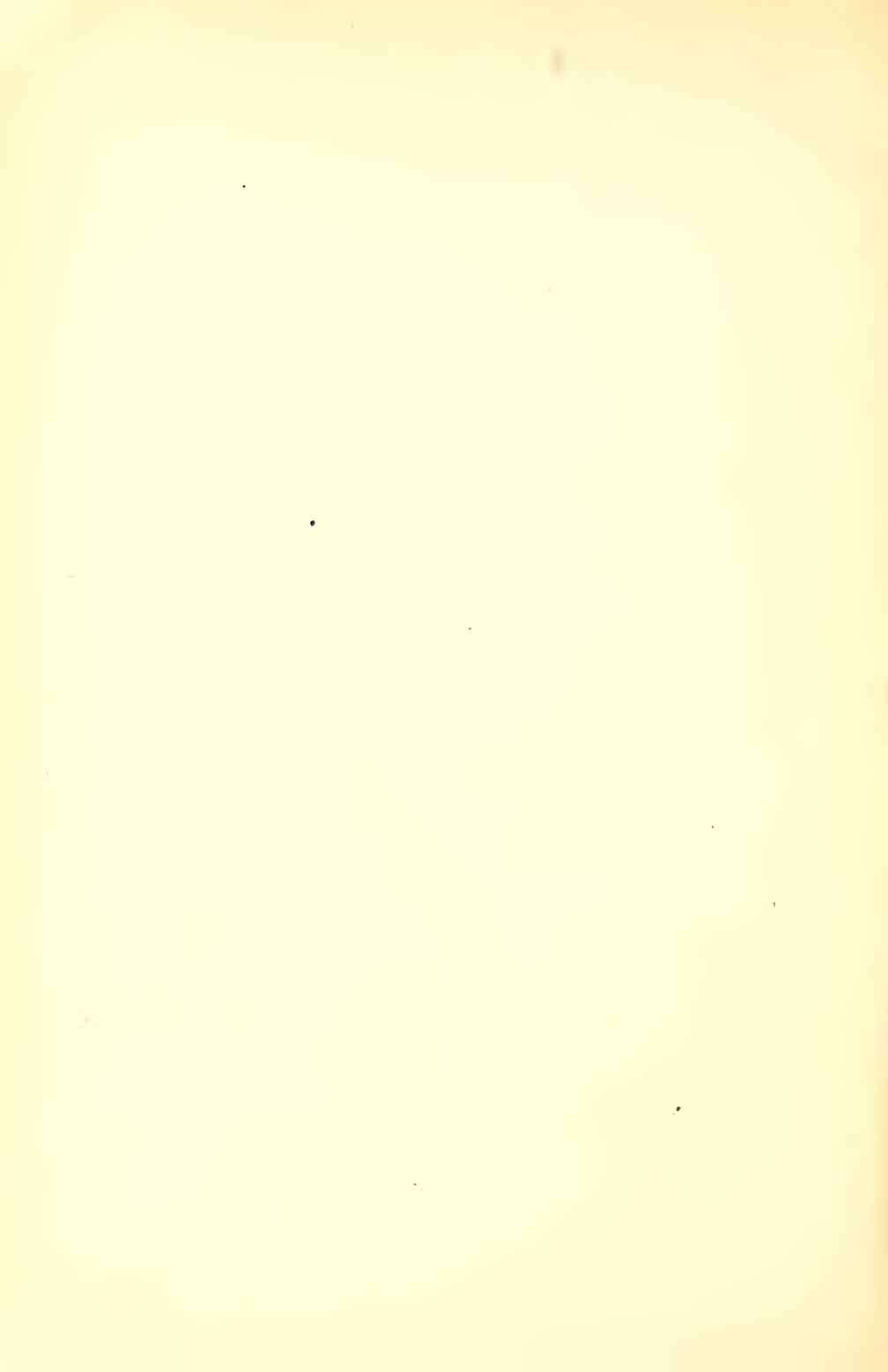
T. CARL WHITMER, DIRECTOR

IDA STARK KOELKER

Piano

CHARLES EDWARD MAYHEW

Singing



## MUSIC

Unusual opportunities are offered at Pennsylvania College for Women for the study of this branch of Art. The Music School connected with the College has been enlarged and reorganized; and all the instructors have had foreign study and training in the subjects placed under their direction. Sixteen pianos are available for daily practice; and a fine three-manual and pedal pipe organ, with electric blower, makes it possible for students to secure great advantages in the way of practical work. Instruction is given in Grand Organ, Piano, Voice, Violin, Cornet and other instruments, if desired.

Students taking college courses may have two hours of music counted toward a degree, on condition that one hour is theoretical instruction, with which one hour of practice may be combined by permission of the Faculty. A descriptive list of music courses which carry college credit will be found on pages 56-57.

A wide range of electives has also been provided for music students who are not candidates for the B. A. degree. Satisfactory completion of a definite amount of theoretical and practical work will entitle students to receive certificates in Piano, Organ, Singing and Musical Pedagogy. A detailed statement is given on pages 78-84 of the courses offered in the Music School, and of the requirements for a certificate in any one of the departments.

It has been the constant aim of the Director to have the teaching in every line of work based on correct comprehension of the laws of the mind. The system of piano study used is rational in every respect, and represents the highest form of musical pedagogy so far reached, leading the student to a positive technic, repose, and a wide range of expressive power. Our students are trained to think, to practice, to memorize, to play, to teach.

The organ work is upon the same intellectual plane as that of the piano. Sight reading, modulation, transposition and improvisation are studied methodically and problems of technic are systematized.

The development of the memory receives especial attention in order that the student may not only acquire a large repertoire but have it constantly available for use.

## THEORETICAL COURSES

1-2. HARMONY. Study of chords in both modes. Ear training, analysis, harmonization. Immediate application of knowledge to composition of pieces in simple forms.

*1 hour, through the year.*

3-4. COUNTERPOINT AND COMPOSITION. Early and modern contrapuntal methods contrasted. Detailed study of melodic and rhythmic construction with practical application to composition.

*Prerequisite: Course 1-2. 1 hour, through the year.*

5-6. DOUBLE COUNTERPOINT, CANON AND FUGUE. Analysis and composition.

*Prerequisite: Courses 1-2 and 3-4. 1 hour, through the year.*

7-8. MUSICAL FORMS AND FREE COMPOSITION. Analysis of both normal and radical musical formations with immediate practice. Development of freedom in use of material.

*Prerequisite: Courses 1-2 and 3-4. 1 hour, through the year.*

9-10. ORCHESTRATION. Detailed theoretical and practical study of orchestral instruments, their individual characteristics and their relation to the score. Score reading.

*Prerequisite: Courses 1-2, 3-4 and 5-6. 1 hour, through the year.*

11-12. HISTORY OF MUSIC. Study of the great works, composers and virtuosi. Development of notation. Comparative study of musical periods.

*Open to students who have taken, or are taking, Course 1-2. 1 hour, through the year.*

13-14. HISTORY OF MUSIC. Abridged course on basis of one hour recitation.

*Open to all students. 1 hour, through the year.*

14-15. APPRECIATION OF MUSIC. A free and untechnical study of men, masterpieces and criticism. Brief programs are given in connection with the lectures.

*Open to all students. 1 hour, through the year.*

## COURSES IN SINGING

1. ELEMENTARY COURSE. Control of the breath. Development of resonance and beauty of tone in relation to vowel sounds. Studies in the formation of consonants. Ear training—intonation and rhythm. Simple exercises and songs.

2. INTERMEDIATE COURSE. Continuation of Elementary Course. Florid exercises—scales, roulades, trill, and other embellishments. Special work in articulation, phrasing, freedom of tone and of facial expression. Advanced vocalises and songs.

3. ADVANCED COURSE. Development of style. Interpretation—Analysis of thought in song poems. The treatment of different schools of composition. The preparation of recital programs. Special studies—Church—Oratorio—Concert—Opera.

4. NORMAL COURSE. Resumé of Elementary, Intermediate, and Advanced Courses. Studies in the causes and treatment of various vocal vices, such as the tremolo (in its different phases), nasality, faulty intonation, etc. The consideration of the individuality of pupils, in connection with which study opportunity will be afforded for observation.

## REQUIREMENTS FOR CERTIFICATE IN PIANO

1. PRACTICAL. The presentation of a program at graduation which shall be the equivalent of the following:

- ( 1 ) Caprice (Alceste), *Gluck—Saint-Saëns.*
- ( 2 ) Prelude and Fugue, *Bach.*
- ( 3 ) Nocturne in F sharp, *Chopin.*
- ( 4 ) Etude, Op. 25, No. 10, *Chopin.*

- ( 5 ) Adagio from Sonata, Op. 2, No. 2, *Beethoven*.
- ( 6 ) Gigue in A, *Bach-MacDowell*.
- ( 7 ) Polichinelle, *Rachmaninoff*.
- ( 8 ) Sonata, No. 4, *MacDowell*.
- ( 9 ) Jeux d' Eau, *Maurice Ravel*.
- (10) Etude III. (La Campanella,) *Paganini-Liszt*.

2. THEORETICAL. Harmony and Single Counterpoint in four parts, five species. Double Counterpoint in the octave, fifteenth, tenth and twelfth. An example of Counterpoint no less than forty-eight measures in four parts, mixed species. A hymn tune over words to be selected by the Director. Two compositions, vocal or instrumental, in selected forms. Completion of this course must agree with date of certificate.

3. HISTORICAL. The course, 11-12, as outlined in Pratt's *History of Music* and the writing of two theses on selected phases of musical history.

4. COLLEGIATE. Seven hours of college work a year for two years, which may be chosen from Modern Languages, Rhetoric, English, History or a one semester course in Physics designed for music students which will be offered this year, at the discretion of the President and the Dean.

## REQUIREMENTS FOR CERTIFICATE IN ORGAN

1. PRACTICAL. The presentation of a program equivalent to the following:

- (1) Fantasie and Fugue in G minor, *J. S. Bach*.
- (2) Overture to *Midsummer Night's Dream*, *Mendelssohn*.  
(Arranged by Samuel P. Warren.)
- (3) Fanfare, *T. Carl Whitmer*.  
(Published by Clayton Summy Co., Chicago).
- (4) Improvisation on a given Theme.
- (5) Symphony, No. V, *Chas. Marie Widor*.
  - I. Allegro Vivance
  - II. Allegro Cantabile



III. Andantino quasi Allegretto

IV. Adagio

V. Toccata.

*Piano*—To organists the possession of a matured piano technic is absolutely indispensable.

2. THEORETICAL. The same as the prescribed for graduation in piano.

3. MECHANICAL. Ability to tune reed pipes and to repair all ordinary disorders of the organ.

4. COLLEGIATE. The same as that prescribed for graduation in piano.

#### REQUIREMENTS FOR CERTIFICATE IN SINGING

1. PRACTICAL.

a. The presentation of a program equivalent to the following:

Se tu m'ami, se sospiri . . . . .	<i>Pergolesi</i>
Quand de bien-aimé reviendra . . . . .	<i>Delayrac</i>
My heart ever faithful . . . . .	<i>Bach</i>
Dein bin ich . . . . .	<i>Mozart</i>
When love is kind . . . . .	<i>Old Irish</i>
Nymphs and Shepherds . . . . .	<i>Purcell</i>
Die Lorelei . . . . .	<i>Liszt</i>
Die Junge Nonne . . . . .	<i>Schubert</i>
Er der Herrlichste von Allen . . . . .	<i>Schumann</i>
An eine Aeolsharfe . . . . .	<i>Brahms</i>
All mein Gedanken . . . . .	<i>Strauss</i>
Villanelle . . . . .	<i>Berlioz</i>
Vieille Chanson . . . . .	<i>Bizet</i>
Romance . . . . .	<i>Debussy</i>
The Wind at Dawn . . . . .	<i>Elgar</i>
Like as the Thrush in Winter . . . . .	<i>Stanford</i>
A ruined Garden . . . . .	<i>Farwell</i>
Forest Song . . . . .	<i>Whelpley</i>

b. The course in piano up to grade four.

2. THEORETICAL. The same as that prescribed for graduation in piano.

3. HISTORICAL. The same as that prescribed for graduation in piano.

4. COLLEGIATE. The same as that prescribed for graduation in piano.

*Class work, choral and sight reading is required throughout the course.*

## TEACHERS' COURSE

As all conscientious teachers are anxious to acquire the best methods, the College has thought it worth while to offer a special and most helpful course for the benefit of those teachers who are so occupied with their own professional work as to be unable to register for the regular courses detailed above, and who especially wish to master principles and methods of teaching.

### REQUIREMENTS FOR THE TEACHERS' CERTIFICATE

1. PRACTICAL.

a. Ability to play through fourth grade work in piano.

b. A teaching experience of one and one-half years.

2. THEORETICAL. The same as that prescribed for graduation in piano.

3. COLLECIATE. The same as that prescribed for graduation in piano.

*If voice or violin is elected as the major subject, piano work up to grade three will be accepted.*

### DEPARTMENT OF CHURCH MUSIC

The College is prepared to offer exceptional facilities for the study and practice of Church Music. Solo organ playing, accompanying of solos and anthems, and choir training form the work for this course.

## PITTSBURGH AND ITS MUSIC

Students have splendid opportunities to hear frequently the world's greatest artists in opera and concert, usually at special reduction in prices.

All these influences are of inestimable value in a musical education, so that a college outside of a great city can never compete with one within in the formative, cultural factors always at work.

### COURSES AND TERMS

		Per Semester one lesson weekly	two lessons weekly
Grand Organ	. . . . .	\$40	\$75
<i>Three-manual pipe organ for lessons and practice, blown by electric motor.</i>			
Piano	. . . . .	30-40	50-75
Voice	. . . . .	30	50
Violin	} . . . . .	30	50
Harp			
Guitar			
Mandolin			
Single lesson in Piano, Organ or Voice	. . . . .		\$5.00
			Per Semester
Use of Organ, one period daily	. . . . .		15
Use of Piano, one period daily	. . . . .		10

### THEORETICAL COURSES

History of Music	} . . . . .	Private Instruction at Piano rates. Class Instruction, for those not otherwise classified, \$15 per semester.
Harmony		
Counterpoint		
Canon		
Fugue		
Composition		
Orchestration		

## ORCHESTRAL INSTRUMENTS

Students desiring to study any orchestral instrument will be provided with an instructor from the ranks of the Pittsburgh Orchestra.

All arrangements for the study of music are made for the entire term. Lessons cannot be discontinued except for valid reasons, and due notice must be given. No deduction will be made for lessons lost by the student.

## FREE ADVANTAGES

*(Open to all Students)*

Harmony Class, Ensemble Class, Choral Class, Sight-Singing Class, Class in Musical Appreciation, Glee Club, Mandolin Club, Concerts and Lectures.

## MUSIC STUDENTS

### PIANO

Acheson, Martha . . . . .	Washington
Bamford, Martha Gordon . . . . .	Midway
Bannerot, Alberta Emma . . . . .	Pittsburgh
Bailey, Anna McGill . . . . .	Philadelphia
Booth, Mary . . . . .	Pittsburgh
Borland, Edna Rebecca . . . . .	Washington
Braznell, Melvine . . . . .	Pittsburgh
Buchbinder, Lucy . . . . .	Pittsburgh
Burkhart, Clarissa . . . . .	Pittsburgh
Chalmers, Helen . . . . .	Wilkinsburg
Chambon, Mary . . . . .	Pittsburgh
Chilcott, Ruth . . . . .	Verona
Colebrook, Louise . . . . .	Pittsburgh
Cooper, Mildred . . . . .	Unity
Davis, Sarah Stewart . . . . .	Pittsburgh
Dutson, Mary . . . . .	Pittsburgh
Duff, Margaret Mary . . . . .	Carnegie
Eggers, Jeanne . . . . .	Pittsburgh
Evans, Mary Jane . . . . .	Pittsburgh
Gaston, Marion . . . . .	Pittsburgh
Gerhold, Alma . . . . .	Homestead
Goeddel, Gertrude Elizabeth . . . . .	Pittsburgh
Goerley, Grace . . . . .	Braddock
Haines, Helen McCleary . . . . .	Butler
Homer, Susie . . . . .	Duquesne
Hudson, Sarah . . . . .	Pittsburgh
Jackson, Helen Smith . . . . .	Pittsburgh
Keller, Fredda Maxine . . . . .	Pittsburgh
Kennedy, Katherine Beazell . . . . .	Munhall
Kisinger, Lillian Margaret . . . . .	Brownsville
Latham, Margaret . . . . .	Pittsburgh
Lee, Virginia . . . . .	Pittsburgh
Leslie, Marion . . . . .	Pittsburgh
Lesslie, Jenifer Mary . . . . .	Pittsburgh
Lewis, Leora Madeline . . . . .	Pittsburgh
Longanecker, Caroline Mathiot . . . . .	Pittsburgh
Mayhew, Mrs. C. E. . . . .	Pittsburgh
Massey, Mae . . . . .	Homestead
Miller, Ruth Emma . . . . .	Fairmont, W. Va.

Mitchell, Adelaide . . . . .	Pittsburgh
McElvany, Eleanor . . . . .	Pittsburgh
McFarland, Katherine Russell . . . . .	Pittsburgh
McWilliams, Mildred Elizabeth . . . . .	Pittsburgh
Messner, Miriam B. . . . .	Warren
Porter, Elise . . . . .	Pittsburgh
Schiller, Gretchen . . . . .	Pittsburgh
Shipley, Bessie . . . . .	Pittsburgh
Slocum, Laura . . . . .	Pittsburgh
Steele, Helen Elizabeth . . . . .	Pittsburgh
Stuckslager, Helen Beam . . . . .	McKeesport
Tillinghast, Marion Burkhart . . . . .	McDonald
Weston, Anna Mildred . . . . .	Gallitzin
Wilson, Florence . . . . .	Pittsburgh
Worthington, Jean . . . . .	Pittsburgh
Wright, Hester McEldowney . . . . .	Pittsburgh
Yeager, Nancy Elizabeth . . . . .	Pittsburgh

## VOICE

Acheson, Martha . . . . .	Washington
Black, Armanella . . . . .	Pittsburgh
Burleigh, Lorna . . . . .	Pittsburgh
Burkhart, Clarissa . . . . .	Pittsburgh
Connick, Louise . . . . .	Pittsburgh
Dutson, Mary . . . . .	Pittsburgh
Goeddel, Gertrude Elizabeth . . . . .	Pittsburgh
Henry, Josephine . . . . .	Pittsburgh
Herriot, William . . . . .	Pittsburgh
Jennings, Mrs. O. E. . . . .	Pittsburgh
Krebs, Margaret . . . . .	Pittsburgh
Kinnear, Esther . . . . .	Pittsburgh
Kronert, Martha J. . . . .	Pittsburgh
Little, Alice . . . . .	Braddock
Miller, Jane . . . . .	Pittsburgh
Miller, Ruth Emma . . . . .	Pittsburgh
Messner, Miriam B. . . . .	Warren
Powell, Lenore . . . . .	Pittsburgh
Robison, Edith . . . . .	Pittsburgh
Robb, Mary Amelia . . . . .	Carnegie
Riggs, Jean Stewart . . . . .	Wellsville, O.
Rosenbloom, Esther Gertrude . . . . .	Braddock

Sims, Helen Hamilton . . . . .	Pittsburgh
Stevenson, Mrs. W. T. . . . .	Pittsburgh
Stevenson, Euphemia . . . . .	Pittsburgh
Storer, Mrs. N. W. . . . .	Pittsburgh
Werle, Rose . . . . .	Pittsburgh
West, Nellie Gray . . . . .	Pittsburgh
Williams, Ethel Mae . . . . .	Glassort
Young, Margaret Elizabeth . . . . .	Latrobe

## ORGAN

Blackburn, Ruth . . . . .	New Kensington
Stuckslager, Helen Beam . . . . .	McKeesport

## HARMONY AND COMPOSITION

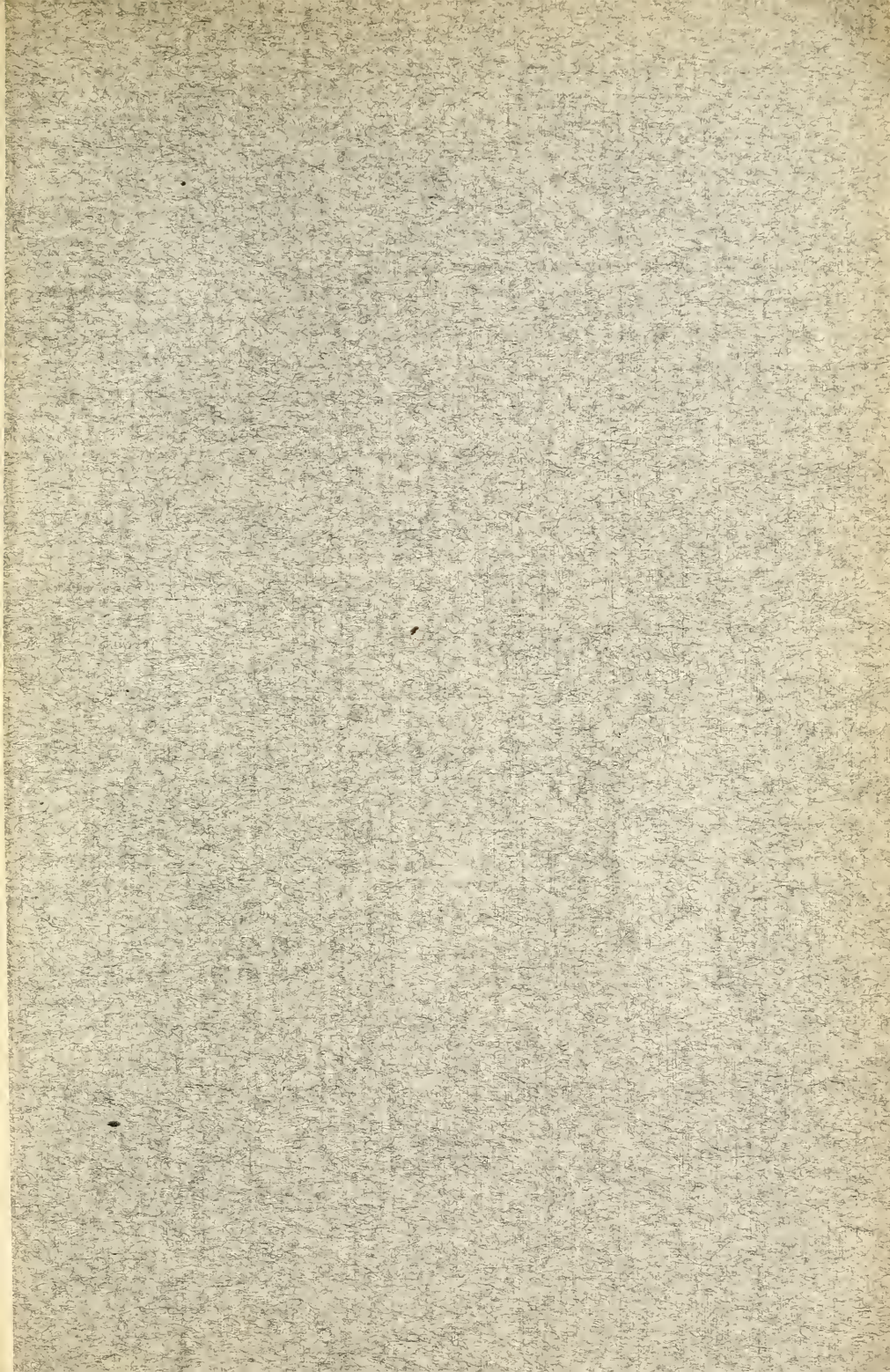
Bamford, Martha Gordon . . . . .	Midway
Bell, Gertrude . . . . .	St. Louis, Mo.
Borland, Edna Rebecca . . . . .	Washington
Buchbinder, Lucy . . . . .	Pittsburgh
Chilcott, Ruth . . . . .	Verona
Cooper, Mildred . . . . .	Unity
Dutson, Mary . . . . .	Pittsburgh
Gerhold, Alma . . . . .	Homestead
Goeddel, Gertrude Elizabeth . . . . .	Pittsburgh
Haines, Helen McCleary . . . . .	Butler
Hudson, Sarah . . . . .	Pittsburgh
Homer, Susie . . . . .	Duquesne
Kisinger, Lillian Margaret . . . . .	Brownsville
Latham, Margaret . . . . .	Pittsburgh
Lee, Virginia . . . . .	Pittsburgh
Mayhew, Mrs. C. E. . . . .	Pittsburgh
Messner, Miriam B. . . . .	Warren
Miller, Ruth Emma . . . . .	Fairmont, W. Va.
McElvany, Eleanor . . . . .	Pittsburgh
Scott, Elizabeth . . . . .	Pittsburgh
Schoeneck, Helen Stieren . . . . .	Pittsburgh
Slocum, Laura . . . . .	Pittsburgh
Steele, Helen Elizabeth . . . . .	Pittsburgh
Stuckslager, Helen Beam . . . . .	McKeesport
Thompson, Florence . . . . .	Pittsburgh
Weston, Anna Mildred . . . . .	Gallitzin



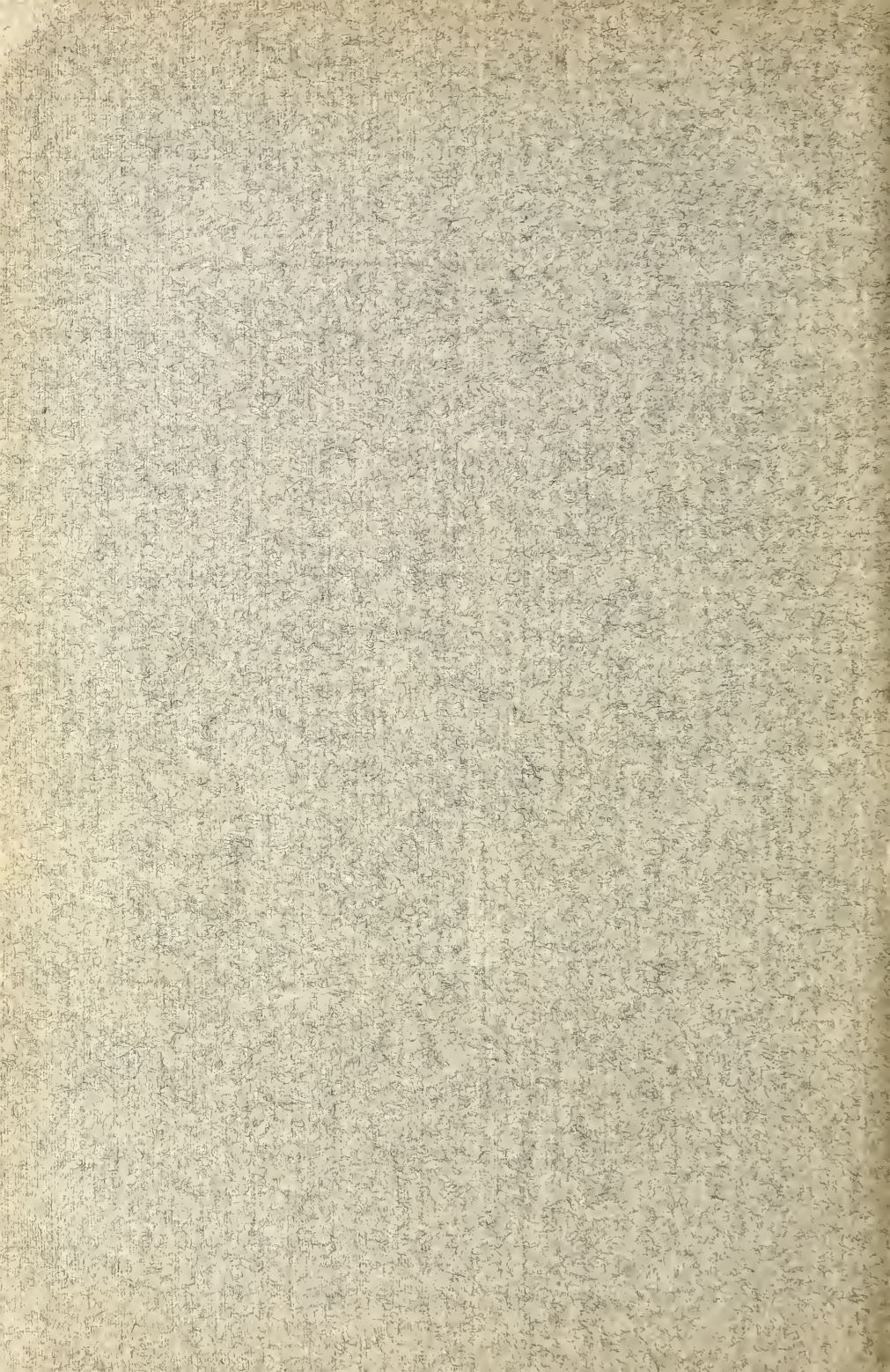
Worthington, Jean . . . . .	Pittsburgh
Wright, Hester McEldowney . . . . .	Pittsburgh
Yeager, Nancy Elizabeth . . . . .	Pittsburgh

## HISTORY OF MUSIC

Bamford, Martha Gordon . . . . .	Midway
Borland, Edna Rebecca . . . . .	Washington
Burkhart, Clarissa . . . . .	Pittsburgh
Chilcott, Ruth . . . . .	Verona
Dutson, Mary A. . . . .	Pittsburgh
Goeddel, Gertrude Elizabeth . . . . .	Pittsburgh
Haines, Helen McCleary . . . . .	Butler
Kisinger, Lillian Margeret . . . . .	Brownsville
Messner, Miriam B. . . . .	Warren
Miller, Ruth Emma . . . . .	Fairmant, W. Va.
McElvany, Eleanor . . . . .	Pittsburgh
McWilliams, Mildred Margaret . . . . .	Pittsburgh
Porter, Elise . . . . .	Pittsburgh
Sullivan, Dr. Clara . . . . .	Wheeling, W. Va.
Weston, Anna Mildred . . . . .	Gallitzin
Worthington, Jean . . . . .	Pittsburgh
Wright, Hester McEldowney . . . . .	Pittsburgh
Yeager, Nancy Elizabeth . . . . .	Pittsburgh







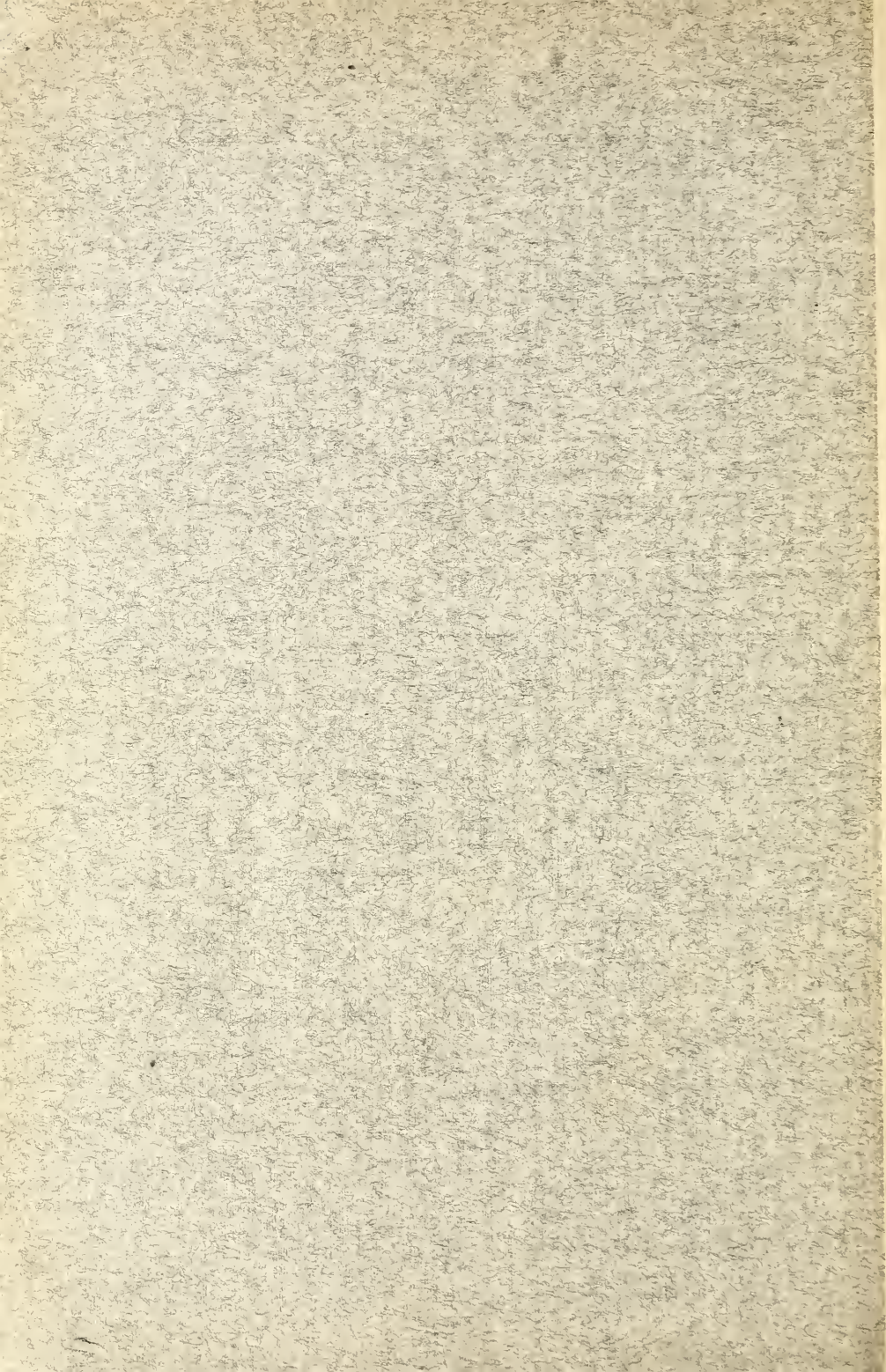


**1914 - 1915**

**Pennsylvania College for Women**

**Pittsburgh**





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**Pennsylvania College for Women**

**Pittsburgh**





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# 1914

September							October							November							December									
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# 1915

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# 1916

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## CALENDAR

### 1914

15 September, Tuesday	-	-	-	Entrance Examinations
15 September, Tuesday	-			First Semester begins—enrollment
16 September, Wednesday	-	-	-	Recitations begin
26 November, Thursday	-	-	-	Thanksgiving Day
18 December, Friday	-	-		Christmas Vacation begins

### 1915

4 January, Monday, 6 P. M.	-	-	-	College opens
25 January, Monday	-	-		Mid-year Examinations begin
1 February, Monday	-	-	-	Second Semester begins
26 March, Friday	-	-	-	Spring Vacation begins
5 April, Monday, 6 P. M.	-	-	-	College opens
15 May, Saturday	-	-	-	May Day Fête
7 June, Monday	-	-	-	Final Examinations begin
11 June, Friday, 3 P. M.	-	-	-	Alumnae Meeting
12 June, Saturday, 8:15 P. M.	-	-	-	Class Day
13 June, Sunday, 11 A. M.	-	-	-	Baccalaureate Sermon
Third Presbyterian Church				
14 June, Monday, 8:15 P. M.				

#### Commencement and President's Reception

14 September, Tuesday	-	-	-	Entrance Examinations
14 September, Tuesday	-			First Semester begins—enrollment
15 September, Wednesday	-	-	-	Recitations begin
25 November, Thursday	-	-	-	Thanksgiving Day
17 December, Friday	-	-	-	Christmas Vacation begins

### 1916

3 January, Monday, 6 P. M.	-	-	-	College opens
24 January, Monday	-	-		Mid-year Examinations begin
31 January, Monday	-	-	-	Second Semester begins
25 March, Friday	-	-	-	Spring Vacation begins
3 April, Monday, 6 P. M.	-	-	-	College opens
13 May, Saturday	-	-	-	May Day Fête
12 June, Monday, 8 P. M.	-	-	-	Commencement

## BOARD OF TRUSTEES

### Term Expires in 1914

REV. WILLIAM L. MCEWAN, D.D.	LEE S. SMITH
WILLIAM H. REA	MRS. CHARLES H. SPENCER
EDWARD WORCESTER ✓	D. M. CLEMON ✓

### Term Expires in 1915

JACOB J. MILLER	WILLIAM N. FREW ✓
JOHN B. FINLEY	JAMES C. GRAY
W. W. BLACKBURN	MRS. WILLIAM S. MILLER

### Term Expires in 1916

*REV. HENRY D. LINDSAY, D.D.	OLIVER MCCLINTOCK
REV. JOHN K. MCCLURKIN, D.D.	DAVID MCK. LLOYD
MRS. JOHN I. NEVIN	JAMES J. DONNELL ✓

## OFFICERS OF THE BOARD

OLIVER MCCLINTOCK	President
JOHN B. FINLEY	Vice-President
WILLIAM H. REA	Secretary
DAVID MCK. LLOYD	Treasurer

\*Deceased

## ORGANIZATION OF THE BOARD OF TRUSTEES

### Executive Committee

WILLIAM H. REA      JOHN B. FINLEY      W. W. BLACKBURN  
LEE S. SMITH

### Finance Committee

JOHN B. FINLEY      DAVID MCK. LLOYD      HON. JACOB J. MILLER  
LEE S. SMITH      JAMES J. DONNELL

### Committee on Faculty and Studies

REV. JOHN K. MCCLURKIN, D.D.      MRS. CHARLES H. SPENCER  
MRS. WILLIAM S. MILLER      REV. WILLIAM L. MCEWAN, D.D.

### Committee on House Visitation

MRS. CHARLES H. SPENCER      MRS. JOHN I. NEVIN  
MRS. WILLIAM S. MILLER

### Auditing Committee

LEE S. SMITH      JOHN B. FINLEY  
REV. WILLIAM L. MCEWAN, D.D.

## FACULTY AND OFFICERS

\*HENRY D. LINDSAY, D.D., PRESIDENT  
Philosophy

CORA HELEN COOLIDGE, B.L., DEAN  
Education

\*MARY JANE PIKE  
Professor Emeritus, Greek and Latin

MARY W. BROWNSON, M.A.  
Biblical Literature

GEORGE W. PUTNAM, M.A.  
English

VANDA E. KERST  
Expression

LUELLA P. MELOY, B.A.  
Sociology and Economics

T. CARL WHITMER, Director of Music  
Piano, Organ and Theory

ALICE DACRE BUTTERFIELD, M. A.  
Chemistry and Biology

MARY DRENNAN LINDSAY, M.A.  
English

VIOLET LOUISE HOLCOMB, M.A.  
Physics

CHARLES E. MAYHEW  
Voice

\*Deceased



## **FACULTY AND OFFICERS**

IDA S. KOELKER  
Piano

ELIZABETH B. WHITE, B.A.  
History

HELEN F. RANDOLPH  
German and Italian

EDNA B. NICHOL, M.A.  
Greek and Latin

HELEN ABBOTT  
Physical Training

EDITH G. ELY, B.L.  
French

LETITIA BENNETT, B.L.  
Mathematics

SAMUEL J. FISHER, D.D.  
Bible Literature

In order of appointment

### **EXECUTIVE OFFICERS**

EMMA MELLOU CAMPBELL, M.A.  
Librarian

MARGARET ANN STUART  
Secretary to the President

MRS. SARAH L. DRAIS  
House Director

\*BESS L. STONER  
Assistant to the Secretary

MARY E. ZAHM  
House Director of Woodland Hall

MABEL N. LLEWELYN  
Assistant to the Secretary

\*Deceased



## GENERAL INFORMATION

### HISTORICAL STATEMENT

PENNSYLVANIA COLLEGE FOR WOMEN was founded to supply the need in Western Pennsylvania of an institution of higher learning, organized and maintained under distinctively Christian influences. The East End of Pittsburgh was chosen as the location best suited for such a centre of liberal education, and a campus of about eleven acres was secured upon a hill crest in immediate proximity to Fifth Avenue, and between the rapidly growing residence districts of East Liberty and Shady-side. The fine, old family residence already standing upon the property was remodeled and enlarged to meet the requirements of the new school, and at a later time received the name Berry Hall, in memory of its former owner. The founding of the College was made possible by the generous gifts and active coöperation of many interested friends; and its charter, granted in December, 1869, authorized the conferring of degrees such as are "usually granted and conferred in other colleges of the United States of America," to students who should complete the offered courses of instruction in the liberal arts and sciences. The first class to be graduated comprised six students, who received their degrees in 1873.

Dilworth Hall, the second of the college buildings in order of erection, was named for Mr. Joseph Dilworth, the largest contributor toward its cost and a staunch friend and supporter of the institution. This structure was completed and dedicated in 1888. The Gymnasium was built in 1892 and connected with a Music Hall in 1897. Woodland Hall was opened as a College House in September, 1909.

## LOCATION

The College is situated in the East End of Pittsburgh, in the midst of the best residence section of the city. The campus is a finely shaded tract of land embracing a hill slope and its crest on which the buildings stand. The campus owned by the College is part of a tract of land many times as large, containing the homes of a few families of wealth. Inasmuch as the entrance to this tract is by a private road, the College is practically located in a large, private park, thus securing an abundance of space and air, a wide view and fine opportunities for outdoor games, combined with a delightful and wholesome seclusion not easy to command in a great city.

Not least among the benefits conferred upon the College by its position in the heart of Pittsburgh is its nearness to the Carnegie Institute. Here are found a splendid library, containing 250,000 volumes; a museum, rich in material for the study of zoölogy, paleontology and ethnography; an art gallery, which maintains a valuable permanent collection of paintings, and exhibits each year work of the best living artists in Europe and America; halls of architecture and sculpture, which make possible at home the acquirement of an intellectual training obtainable under ordinary circumstances only by means of extensive travel in foreign lands.

Any of the lines of electric cars running out Fifth Avenue from the downtown district will carry passengers very near the campus entrances on Murray Hill Avenue and on Woodland Road; and cabs may be taken at the railway stations which will convey travelers to the College. Baggage entering the city by the Pennsylvania lines should be checked to the East Liberty Station.

## BUILDINGS

The main buildings of the College are so connected that practically no exposure to the weather is involved in passing from one to another. They are so disposed as to receive the sunshine on all sides in the course of the day. All the buildings are heated by steam and lighted with gas.

BERRY HALL is four stories in height. On its lower floors are the library, drawing rooms, class rooms, and the offices of the President and the Dean. On its upper floors are living rooms for faculty members and resident students.

MUSIC HALL has a spacious gymnasium on the first floor, and on the second, music studios and practise rooms.

DILWORTH HALL is devoted to academic uses. In it are the Assembly Hall, lecture rooms and laboratories.

WOODLAND HALL, the new residence house, was opened in the autumn of 1909. It is a four-story building containing a large reception hall, parlors, dining and service rooms, an infirmary and living accommodations for sixty students. It is constructed after the most approved plans for college dormitories and has been found a commodious and very attractive home.

## LIBRARIES

THE COLLEGE LIBRARY, housed in Berry Hall, contains thirty-five hundred volumes. Students have access to its shelves from 8:15 A. M. to 9:30 P. M., daily. The collection is classified according to the Dewey system, and is provided with a card catalogue. A thorough reorganization has augmented the working value of the books already on the shelves; and the departmental collections are enlarged from time to time by gifts from the Alumnae and friends, or by the appropriation of funds. A Library Endowment Fund was started in 1909 by Mrs. Agnes Pitcairn Decker, an Alumna of the College, as a memorial to Mrs. Florence I. Holmes Davis, of the Class of 1875; and as this fund increases, its interest will become available for the purchase of important books.

THE CARNEGIE LIBRARY OF PITTSBURGH. The facilities of this immense library are at the disposal of the Pennsylvania College for Women, for not only is it near enough for personal consultation, but through the courtesy of the authorities of the Carnegie Library a loan department has been established at the College for students. This permits the use upon an extensive scale of outside reading in connection with all branches of assigned work.

## READING ROOM

Adjacent to the College Library is a well-lighted and attractive reading room, supplied with daily and weekly newspapers, standard monthly magazines, quarterly reviews and departmental journals.

## LABORATORIES AND MUSEUMS

The Science Department is located on the third floor of Dilworth Hall and is provided with lecture rooms and with physical, chemical and biological laboratories, supplied with all modern apparatus necessary for the pursuit of the courses offered. The physics laboratory is provided with apparatus for undergraduate work in mechanics, sound, heat, light, electricity and magnetism. The chemical laboratory is equipped with accurate chemical balances, boiling and freezing point apparatus and other facilities for careful quantitative work. Connected with the chemical laboratory is a stock room situated in the basement of Dilworth Hall from which duty free apparatus is loaned to students for use in the laboratory. This apparatus remains the property of the College and may be returned at any time; but if broken or used up the student is required to replace it. While no attempt is made to maintain a museum, students have access to a very good collection of minerals, specimens of the rarer elements and their compounds, and representatives of the less readily prepared organic substances. Collections of mounted skeletons illustrating the comparative osteology of typical vertebrates of preserved and mounted zoölogical forms, and of charts and microscopical mounts supplement the laboratory equipment in Biology.

In addition to the College equipment students have access to the abundant facilities of Carnegie Museum, among which are a valuable herbarium, palaeontological specimens and a collection of 38,000 birds, besides the large Science Library.

## HEALTH AND PHYSICAL TRAINING

The health of students is made a chief object of attention. A physical examination is required of each student upon entrance



and during the year at the discretion of the Director of the Physical Training Department. The head of Woodland Hall gives her personal attention to all girls who may be ill. The infirmary in the dormitory is well equipped for the care and comfort of the sick.

The Department of Physical Training, with a well-equipped gymnasium, in its required and elective courses offers to students of the College opportunities for intelligent exercise and the aesthetic development of the body. All resident students are expected to take daily outdoor exercise.

The regulation suit consists of black bloomers, white jumpers and gymnasium shoes. This suit may be ordered through the Director at a cost of about seven dollars.

The College Athletic Association controls all athletics, including tennis, field hockey, basket ball and swimming. Satisfactory arrangements for swimming have been made at the Oakland Natatorium not far from the College.

## MUSIC

The College recognizes the place of music in higher education and in its School of Music provides ample facilities for those who wish to pursue this study in connection with other college work. Attention is called to the announcement of the School of Music on page 75 of this catalogue.

Courses in the history and theory of music are counted toward the baccalaureate degree. Practice courses may be so counted if combined with a proper amount of history and theory.

## ART

A well known local artist, Miss Anna Craig, has a studio in the main building and students desiring work in illustrating, painting, sketching and design can make arrangements with Miss Craig at moderate prices.

## **ROUTINE OF ADMISSION**

Registration blanks are provided by the College for the use of applicants for admission and will be forwarded upon request. These blanks, properly filled and signed, should be in the hands of the college authorities by September 10th. A registration fee of five dollars will be charged for holding a room for a resident student. This will be credited on the first payment, or refunded if notification of withdrawal is sent before August 25th.

All applicants for admission must present satisfactory testimonials of good moral character. Those who come from other colleges must bring certificates of honorable dismissal.

## **METHODS OF ADMISSION TO THE FRESHMAN CLASS**

Admission is by one of the following methods:

*a.* EXAMINATION. Applicants for admission may be examined at the College either during the week preceding Commencement or at the opening of the College year.

Certificates of the College Entrance Examination Board are accepted in lieu of the entrance examinations at the College.

*b.* CERTIFICATE FROM ACCREDITED SCHOOLS. Instead of examination, certificates from High Schools and Academies whose work has been approved by the College and whose courses prepare for the Freshman class will be accepted. Blank forms of such certificates will be furnished instructors on application to the President, with whom they are invited to correspond. Applicants for admission are requested to present their certificates, or send them by mail to the President during the week preceding Commencement, or as soon thereafter as practicable. When the requirements given below have not been met exactly, equivalents, stated in detail, must be offered. Students received on certificate are regarded as on probation during the first semester.

## REQUIREMENTS FOR ADMISSION TO THE FRESHMAN CLASS

Fifteen units are required for admission to the freshman class. Of these fifteen units, three must be in English, three in mathematics, one in history, four in Latin and two in some language other than English or Latin. The remaining two units are elective.

### EXPLANATION OF REQUIREMENTS FOR ADMISSION

#### ENGLISH

Three units.

Preparation should include the following subjects:

*a.* COMPOSITION. Students should be familiar with the essentials of English grammar, should know the fundamental principles of rhetoric, and should be able to apply them in the construction of effective sentences and paragraphs and in the organization of written work. No student will be accepted whose paper is notably deficient in logical development of the subject matter, or in such details of form as spelling, punctuation, grammar and division into paragraphs.

*b.* LITERATURE. The books recommended are those listed in the Uniform College Entrance requirements in English, but other similar books will be accepted as equivalents. Candidates will be required to write one or more paragraphs on each of several subjects, chosen from a considerably larger number, given in the examination paper. The questions on all the books assume a knowledge of subject-matter and structure, some acquaintance with the lives of the authors and with the period in which they lived, but those on books prescribed for study and practice call for more detailed treatment than those on books prescribed for reading and practice.

(1.) Books prescribed for reading and practice for students entering in 1913, 1914, 1915 are:

Group I. (Two to be selected). *The Old Testament*, including the most important narrative parts of *Genesis*, *Exodus*, *Joshua*, *Judges*, *Samuel*, *Kings*, and *Daniel*, together with the books

of *Ruth* and *Esther*; the *Odyssey*, with the omission of Books I-V, XV-XVII; the *Iliad*, with the omission of the Books XI, XIII-XV, XXI; Virgil's *Aeneid*. English translations of the *Odyssey*, the *Iliad*, and the *Aeneid*, of acknowledged literary merits, must be used.

Additional units from Groups II-V may be substituted for the two units of this group.

Group II. (Two to be selected). Shakespeare's *Julius Caesar*; *The Merchant of Venice*; *As You Like It*; *A Midsummer-night's Dream*; *Twelfth Night*; *Henry V*.

Group III. (Two to be selected). Dr. Goldsmith's *The Vicar of Wakefield*; either Scott's *Ivanhoe* or *Quentin Durward*; Hawthorne's *The House of Seven Gables*; Thackeray's *Henry Esmond*; either Dickens' *A Tale of Two Cities* or *David Copperfield*; Mrs. Gaskell's *Cranford*; George Eliot's *Silas Marner*; Stevenson's *Treasure Island*; Defoe's *Robinson Crusoe*, Part 1.

Group IV. (Two to be selected). *The de Coverley Papers* in *The Spectator*; Franklin's *Autobiography*; Bunyan's *Pilgrim's Progress*, Part I; Irving's *Sketch-Book*; Macaulay's *Essays on Clive and Hastings*; Thackeray's *English Humorists*; selections from Lincoln, including at least the two *Inaugurals*, the *Speeches in Independence Hall and at Gettysburg*, the *Last Public Address* and the *Letter to Horace Greely*, together with a short memoir or estimate; Parkman's *Oregon Trail*; Thoreau's *Walden*; Huxley's *Autobiography* and selections from *Lay Sermons*, including addresses on *Improving Natural Knowledge*, *A Liberal Education*, and *A Piece of Chalk*; Stevenson's *Inland Voyage and Travels with a Donkey*.

Group V. (Two to be selected.) Palgrave's *Golden Treasury* (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Gray's *Elegy in a Country Churchyard* and Goldsmith's *The Deserted Village*; Coleridge's *The Ancient Mariner* and Lowell's *The Vision of Sir Launfal*; Scott's *The Lady of the Lake*; Byron's *Childe Harold*, Canto IV. and *The Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), Book IV, with special reference to Wordsworth, Keats, and Shelley; Poe's *The Raven*; Longfellow's *The Courtship of*

*Miles Standish*, and Whittier's *Snow-Bound*; Macaulay's *Lays of Ancient Rome*, and Arnold's *Sohrab and Rustum*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa-Down in the City*.

(2.) The books prescribed for study and practice for students entering in 1913, 1914, 1915 are:

Shakespeare's *Macbeth*; Milton's *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker-Hill Oration*; Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns*.

## MATHEMATICS

Three units.

a. ALGEBRA THROUGH QUADRATICS. The four fundamental operations for rational algebraic expressions, Factoring, determination of highest common factor and lower common multiple by factoring. Fractions, including complex fractions, ratio and proportion. Linear equations, numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

Quadratic equations, both numerical and literal. Simple cases of equations with one or more unknown quantity, that can be solved by the methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the  $n$ th term and the sum of the terms of arithmetical and geometrical progressions, with application.

b. PLANE GEOMETRY. The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circles and the measurements of angles; similar polygons; areas; regular polygons and the measurements of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces.

## HISTORY

One unit each.

a. ANCIENT HISTORY. With special reference to Greek and Roman History, but including also a short introductory study of the Ancient East and extending to 800 A.D.

b. MEDIAEVAL AND MODERN HISTORY. European history, from the death of Charlemagne to the present time.

c. ENGLISH HISTORY. With due reference to social development and the growth of political institutions.

d. AMERICAN HISTORY AND CIVIL GOVERNMENT.

## LATIN

One unit each.

a. GRAMMAR AND ELEMENTARY PROSE COMPOSITION. A thorough knowledge of all regular inflections, all common irregular forms, the fundamentals of syntax, and a select vocabulary.

b. CAESAR. *Gallie War*, Book I-IV, or the equivalent from other books of the *Gallie War* or the *Civil War*, or *Nepos, Lives*. The examination consists of translation at sight of narrative prose similar to the above.

c. CICERO. The four orations against Catiline and the orations from Archias and for the Manilian Law, or the equivalent from other orations of Cicero or from his letters, or from Sallust, Catiline and Jugurtha, except that the orations for the Manilian Law and for Archias are required. The examination consists of translation (together with historical, literary and grammatical questions) of passages taken from the two required orations and of sight translation of passages similar to the above in vocabulary, syntax and range of ideas. The applicant will also be examined in advanced prose composition.



d. VIRGIL. *Aeneid*, Books I-VI, or the equivalent from other books of the *Aeneid*, or from the *Bucolics* or *Georgics*, or from Ovid, *Metamorphoses*, *Fasti*, or *Tristia*, except that *Aeneid* I, II and either IV or VI are required. The examination consists of translation (together with questions on grammar, prosody, literary and historical allusions, and subject-matter) of passages taken from the required books, and of sight translation of passages similar to the above in vocabulary, syntax, and range of ideas.

## GREEK

One unit each.

a. GRAMMAR AND COMPOSITION. The topics for examination are similar to those under Latin Grammar and Composition. See page 20.

b. XENOPHON. *Anabasis*, Book I-IV. The examination will include translation at sight.

c. HOMER. *Iliad*, Books I-III (omitting II, 494-end). The examination will include translation at sight.

## GERMAN

One unit each.

a. (1.) A knowledge of elementary grammar, including forms and the simpler rules of syntax and word order.

(2.) Reading and translation of not less than 100 pages of easy modern German prose.

(3.) Ability to read German aloud intelligently and with correct pronunciation and to answer simple questions in German based upon the texts read.

b. (1.) Further study of the grammar, particularly of the syntax, uses of modal auxiliaries, subjunctive and infinitive moods.

(2.) Reading and translation of not less than 200 pages of modern stories and plays with a few poems, in addition to the amount already indicated.

(3.) Ability to translate easy English prose into German. This ability may be acquired by constant practice in oral and written reproductions of the contents of the texts read, and by easy exercises in German prose composition.

(4.) Practice in dictation, conversation, memorizing of selected passages.

c. (1.) Further study along the lines already indicated.

(2.) A thorough review of the grammar, accompanied by the use of a good text book in German prose composition.

(3.) Reading and translation of from 300 to 400 pages of more difficult German. It is recommended that half of this amount be selected from simpler works of the classical period.

(4.) Ability to follow a recitation conducted in German, to answer questions based upon the texts and to give oral and written reproductions of passages read and discussed in the class.

## FRENCH

One unit each.

a. (1.) A knowledge of the fundamental principles of grammar is required. Inflection of nouns, adjectives, the use of all pronouns, conjugation of regular verbs and the common irregular verbs and the elementary rules of word order.

(2.) Reading and translation of not less than 100 pages of easy modern French.

(3.) Ability to read French aloud intelligently with correct pronunciation and to answer simple questions in French based upon the text read.

b. (1.) Further study of grammar, particularly of syntax. Common idiomatic phrases, uses of modal auxiliaries, subjunctive and infinitive moods.

(2.) Reading and translation of not less than 200 pages of modern stories and plays, with a few poems in addition to the amount already indicated.

(3.) Ability to translate easy English prose into idiomatic French. This ability may be acquired by constant practice in oral and written reproduction of the contents of the texts read, and by easy exercises in French composition. Practice in dictation, conversation, memorizing of selected passages.

c. (1.) Further study along the lines already indicated. A thorough review of the grammar accompanied by the use of a good text book in French prose composition.

(2.) Reading and translation of from 300 to 400 pages of more difficult French, half of which should be selected from the simpler classics.

(3.) Ability to follow a recitation conducted in French, to answer questions based upon the texts and to give oral and written reproductions of passages read and discussed in class.

## CHEMISTRY

One, or one-half, unit.

The study of at least one standard text-book, so planned that the student may acquire a connected and comprehensive view of the most important facts and laws of elementary chemistry.

Laboratory work, comprising at least forty exercises similar to those given in Brownlee's or Newell's *Laboratory Manual* or in the College Entrance Board requirement, recorded in a note book, certified by the teacher to be the original work of the student.

## PHYSICS

One, or one-half, unit.

The study of a text-book the equivalent of Carhart and Chute's *High School Physics*, supplemented by the solution of numerous simple illustrative problems. Mechanics, heat, sound, light, magnetism and electricity should be included.

Instruction by lecture table demonstrations of the practical aspects and applications of the fundamental facts and laws of physics.

Laboratory work shown in a note book certified by the instructor to be the original work of the student. The work should include at least thirty experiments chosen to give forceful illustration of these facts and laws and to develop accuracy of observation and clearness of thought.

## BOTANY

One, or one-half, unit.

The general principles of anatomy and morphology, physiology and ecology. Two thirds of the time should be devoted to individual laboratory work recorded by descriptions and diagrammatically accurate drawings.

## ADMISSION TO ADVANCED STANDING

Students from other colleges whose entrance requirements are equivalent to those of the Pennsylvania College for Women and which offer equivalent courses of study will be credited with the work they have done in such colleges and admitted to advanced standing without examination. Students who do not come from other colleges, if they desire advanced credit must pass exami-

nations in subjects offered as college work. No student will be accepted to candidacy for the baccalaureate degree after the beginning of the senior year.

### ADMISSION AS SPECIAL STUDENTS

Students may receive instruction without becoming candidates for a degree, provided they can meet the requirements for admission to the freshman class, or have pursued other studies which may be accepted as equivalent to the entrance requirements, or have such training along special lines as will warrant their admission to college classes. The college welcomes, as students, persons of mature age and earnest purpose.

All special students are required to consult with the Dean concerning their courses of study and she will arrange their work in consultation with the heads of the departments. Certificates will be given for completed work of this kind. *Special students are permitted to enter only those classes for which their previous training has fitted them.* In general they are subject to the same requirement as to college regulations, number of hours of work and standing in class as regular students, but each application is considered on its merits.

### REQUIREMENTS FOR GRADUATION

The degree of Bachelor of Arts is given to students who have satisfactorily completed courses amounting in all to sixty hours of college work.

The unit of time used in measuring the value of work is a year hour,—that is, one full hour of class work weekly during the college year. The requirement for each year of the college course is fifteen hours weekly. Students who have maintained a uniformly high grade of scholarship may, by special permission of the faculty, carry extra work, not to exceed two hours per week.

The total requirement for the Bachelor's degree is as follows:

English . . . . .	six hours
Mathematics . . . . .	three hours
History . . . . .	three hours
Science . . . . .	three hours
Philosophy . . . . .	four hours
Biblical Literature . . . . .	four hours
Language (other than English) . . . . .	six hours
Elective work . . . . .	thirty-one hours

### ELECTIVE WORK

Elective work is distributed as follows: three hours in the freshman year, six hours in the sophomore year, ten and one-half hours in the junior year and eleven and one-half hours in the senior year.

All elections are subject to the approval of the faculty. At the end of the freshman year each student is required to choose a major department in which she will do at least eight hours of work and an allied minor department in which she will do at least six hours of work. Not more than six hours may be elected in a single department in any one semester. The faculty retains the option of forming classes in any elected courses when fewer than six students apply for registration.

### ATTENDANCE UPON CLASS EXERCISES

The grade of work done by a student is necessarily affected by irregularity of attendance upon lectures or recitations. Special examinations may be required if the number of absences for any semester shall exceed the limits of moderation.

Opportunities are offered for attendance upon lectures given in the city which are connected in subject with courses offered by the College. Upon notification by the instructor concerned, students will be expected to attend such lectures, and may have them counted as part of the required work of the courses to which they are allied.



## EXAMINATIONS

General examinations are held in all subjects at mid-year and at the close of the college year. Partial examinations may be given at the discretion of the instructor. Examinations taken for the removal of conditions, or for the securing of credit for private work are scheduled for the opening day of a semester, but may be appointed for other times under special conditions.

Students failing to present themselves for examinations in course may secure private examinations by permission of the Dean and upon payment of a fee of two dollars. If several examinations are to be taken under one permit, a fee of three dollars shall cover the list.

## CONDITIONS

A student whose work in any course is unsatisfactory will be conditioned in this subject at the end of the semester. This condition must be removed by doing an assigned amount of supplementary work within time-limits set by the instructor, and if considered necessary, under the direction of a tutor. If the condition is not removed at the expiration of the time-limit, the work of the course will be considered a failure. Failure in a required course must be made good by the repetition of the course at the time when it is next regularly given.

Entrance conditions are ordinarily to be made good within the first year of college attendance. No student can retain her entrance classification if she continues to carry conditions exceeding five year hours.

## REPORTS

Reports of the scholarship of students are sent out at the end of each semester to parents or guardians. A student may learn her standing in classes by making application to the Dean at the end of the semester.

## GRADUATE WORK

The degree of Master of Arts is conferred upon Bachelors who hold the degree of Arts from this college, or from some other college of equal standing, and who have satisfactorily completed one full year of graduate work under the direction of the faculty. In exceptional cases the work may be done *in absentia*, an examination being required of the candidate as a test of fitness to receive the degree.

Advanced courses appropriate for graduate study leading to the higher degrees are described in the outlines of courses of various departments. Some courses are open to both graduate and undergraduate students; graduates pursuing these courses must maintain a standard of work sufficiently high to satisfy the college authorities that they are entitled to receive graduate credit.

The amount of work required of a candidate for the degree of Master of Arts is equivalent to fifteen hour courses pursued during a period of residence not shorter than one year. Candidates for this degree are required to pass examinations in one major and at least one minor subject, which have been determined upon not later than October 15th of the year in which the examinations will be taken. The major and minor must be in separate departments, but the subjects should be so related as to indicate a definite acquisition in scholarship on the part of the student. A thesis on the major subject, due not later than May 1st, will be required to complete the work for the Master's degree.

A graduate of the Pennsylvania College for Women who has completed one full year of continuous graduate study in an American university of high standing may make application for the degree of Master of Arts and this may be granted upon condition that she comply with the following requirements:

1. She shall present the university registrar's certificate of credit for graduate work completed, and a letter from the chairman of her examining committee of the university certifying that her scholarship and amount of work successfully finished entitle her to the university examination for the Master's degree

and that he approves her application for such a degree from the Pennsylvania College for Women.

2. She shall submit a satisfactory thesis based upon her graduate study.

3. She shall present herself for examination for the Master's degree at the discretion of the faculty.

Tuition and laboratory fees paid by graduate students are the same as those paid by undergraduates. The charge for a diploma is ten dollars.

## CURRICULUM SCHEDULE

Freshman Year	Sophomore Year	Junior Year	Senior Year
Bible Course D. 1 hour	Bible Course C. 1 hour	Bible Course B. 1 hour	Bible Course A 1 hour
English Course D. 2 hours	English Course C. 2 hours	English 2 hours	Ethics 1½ hours
Mathematics Course D. 3 hours	Science 3 hours	Psychology 1½ hours	Logic 1 hour
Language 3 hours	Language 3 hours	Elective 10½ hours	Elective 11½ hours
History Course D. 3 hours	Elective 6 hours		
Elective 3 hours			
15 hours	15 hours	15 hours	15 hours

## COURSES OF INSTRUCTION

### PHILOSOPHY

DR. LINDSAY, MISS BENNETT

B-1. PSYCHOLOGY. A study of the laws and the phenomena of the mind.

Dr. Lindsay.

*Required of juniors. 3 hours, first semester.*

B-2. LOGIC. A study of the principles of inductive and deductive reasoning, and of the relation of logical theory to scientific and philosophic thought.

Miss Bennett

*Required of juniors. 2 hours, second semester.*

A. ETHICS. The history of ethical philosophy, and a study of the fundamental principles of morality.

Dr. Lindsay.

*Required of seniors. 3 hours, first semester.*

1. HISTORY OF PHILOSOPHY. An introductory outline of Greek philosophy, followed by lectures on the development of modern philosophy.

Dr. Lindsay.

*Elective. Prerequisite: Course B. 2 hours, second semester.*

2. CHRISTIAN EVIDENCES. An outline of the grounds upon which the Christian system rests.

Dr. Lindsay.

*Elective, open to sophomores, juniors and seniors. 2 hours, first semester.*

### EDUCATION

MISS COOLIDGE

1. HISTORY OF EDUCATION. The development of educational ideals, institutions and methods, with special reference to modern educational thought and practice.

*Elective, open to juniors. 2 hours, second semester. Open to seniors, 1 hour, first semester.*

3. CONTEMPORARY EDUCATIONAL PROBLEMS. Study of experiments in educational problems with reference to their psychological and social value.

*Elective, open to juniors. 1 hour, first semester.*

5. PRINCIPLES OF EDUCATION. A study of fundamental principles from the standpoint of the teacher. Emphasis is placed on the biological and physical aspects of education.

*Elective, open to seniors. 1 hour, first semester.*

6. CLASS ROOM METHOD AND MANAGEMENT. A practical course in methods of presentation of subject matter and in discussion of school activities. Opportunity will be given for observation in Dilworth Hall and in selected High Schools.

*Elective, open to seniors. 2 hours, second semester.*

7-8. By co-operation between the departments of Social Service and Education, advanced students in both departments may have opportunity to study some lines of social work open to educational investigation and of practical value to teachers.

*Elective, open to seniors. 1 hour through the year.*

See also courses: History 12, Mathematics 8, Chemistry 13-14.

The diplomas of students who have taken the two hundred hours of educational work required by the School Code are countersigned by the school authorities. The courses in other departments which may be counted to meet the State requirements are Philosophy, Courses B-1, B-2, A and 1; History, Course 12; Mathematics, Course 8 and Chemistry, Course 13-14.

Graduates of the College have state teachers' certificates for Pennsylvania under the School Code. Arrangements have also been made with the New York State Board of Education whereby graduates receive the College Graduate Professional Certificate. Similar arrangements have been made with authorities in other states in which graduates have desired to teach.



In addition to the formal courses in this department there are numerous lectures at various times during the year by men of distinction in educational lines.

## SOCIOLOGY AND ECONOMICS

MISS MELOY

1-2. SOCIAL SERVICE. Theory and observation. Theory:—The cause of poverty; modern methods of dealing with poverty and degeneration, including the history, principles, and methods of institutions and agencies for relief and social welfare. The newer forms of preventive and constructive work are emphasized. Observation:—Weekly visits to carefully selected institutions and agencies in and near Pittsburgh.

*Elective, open to sophomores, juniors and seniors. 2 hours, through the year.*

3-4. SOCIAL SERVICE. Theory and Practice. Theory:—Public and private care of dependent classes; administration, support, and supervision of charities; social legislation; treatment of needy families. Practice:—Weekly field work under direction of a social settlement, child-helping society, the Associated Charities, or other social agency. Papers showing the results of investigations made by students.

*Elective. Prerequisite: Course 1-2. 2 hours, through the year.*

5-6. SOCIAL SERVICE. Advanced course. Detailed study, especially of constructive methods in a field chosen by the student. Weekly practice in social work.

*Elective. Prerequisite: Courses 1-2 and 3-4. 2 hours, through the year.*

7-8. SOCIOLOGY. First semester:—Study of the evolution of society, followed by lectures on the views of prominent sociologists. Second semester:—The social order and its organization. Cooley's *Social Organization* is used.

*Elective, open to juniors and seniors. 2 hours, through the year.*

9-10. ECONOMICS. An introduction to principles. Practical economic problems.

*Elective, open to juniors and seniors. 2 hours, through the year.*

## HISTORY AND POLITICAL SCIENCE

MISS BROWNSON, MISS WHITE

D. EUROPEAN HISTORY FROM THE PERIOD OF THE BARBARIAN INVASIONS TO THE RENAISSANCE. A study of the beginnings of the great nations and of such topics as feudalism, the crusades, the growth of towns and the struggle between church and state.

*Required of freshmen. 3 hours, through the year.*

1-2. EUROPEAN HISTORY FROM THE BEGINNINGS OF THE RENAISSANCE TO THE CLOSE OF THE EIGHTEENTH CENTURY. A study of political, intellectual and social progress, emphasizing the characteristic features and results of the Renaissance movement, the Protestant reforms, the Wars of Religion, the Revolutionary and Napoleonic periods in France.

*Elective. Prerequisite: Course D. 3 hours, through the year.*

3-4. THE DEMOCRATIC MOVEMENT IN THE LAST HUNDRED YEARS. This work begins with the Congress of Vienna, and takes up the development of the nations of today. Such subjects are discussed as the rebirth of Italy, the creation of the German Empire, and the rise of the Balkan States.

*Elective. Prerequisite: Courses D and 1-2. 2 hours, through the year.*

5. AMERICAN CONSTITUTIONAL HISTORY. A study of the constitution of the United States, with special reference to the powers of the federal government and its relations with the governments of the several states.

*Elective. Prerequisite: Courses D and 3-4. 2 hours, first semester.*

6. AMERICAN DIPLOMATIC HISTORY. A survey of the international relations of the United States, including some discussion of the nature and development of international law, questions of dispute during the last century between the United States and European countries, relations with Latin America and the Far East, the share of the United States in the Hague Conferences.

*Elective. Prerequisite: Courses D, 3-4 and 5. 2 hours, second semester.*

7-8. CONTEMPORARY HISTORY. A study of periodical literature with a view to understanding the great questions dealt with by nations to-day.

*Elective. 1 hour, through the year.*

9-10. ART HISTORY. This course includes a study of the development of Architecture, Sculpture and Painting. Its aim is to cultivate the judgment and enlarge the horizon of the student.

*Elective. 2 hours, through the year.*

12. THE TEACHING OF HISTORY. A consideration of the use of historical material, the criticism of text books, and the methods of teaching history in both elementary and secondary schools. Opportunity will be given for observation work in city schools.

*Elective, open to Seniors. 2 hours, second semester.*

## GREEK

MISS NICHOL

1-2. GRAMMAR AND PROSE COMPOSITION. XENOPHON, *Anabasis*.

*Open to all students not offering Greek for entrance. 3 hours, through the year.*

3-4. HOMER, *Iliad* and *Odyssey*.

*Prerequisite: Course 1-2. 3 hours, through the year.*

5. PLATO, *Apology*, *Crito*, XENOPHON, *Memorabilia*. PROSE COMPOSITION.

*Open to freshmen entering with three units of Greek. 3 hours, first semester.*

6. HOMER, *Odyssey*.

*3 hours, second semester.*

7-8. DEMOSTHENES, *Oration on the Crown*. Selections from *Greek Lyric Poets*. Euripides, *Medea* and *Alcestes*.

*Prerequisite: Courses 5 and 6. 2 hours, through the year.*

9-10. AESCHYLUS AND SOPHOCLES.

*2 hours, through the year.*

11. PLATO, *Phaedo*.

*2 hours, first semester.*

12. HERODOTUS.

*2 hours, second semester.*

13. THUCYDIDES.

*2 hours, first semester.*

15-16. GREEK PROSE COMPOSITION.

*Prerequisite: Course 5. 1 hour, through the year.*

17-18. HISTORY OF GREEK LITERATURE.

*1 hour, through the year.*

## LATIN

MISS NICHOL

1. LIVY. Selections from Books I, XXI, XXII.

*Open to freshmen. 3 hours, first semester.*

2. HORACE, *Odes* and *Epodes*.

*Open to freshmen. 3 hours, second semester.*

3-4. LATIN PROSE COMPOSITION.

*Open to all who enter with 4 units of Latin. 1 hour, through the year.*

5. LATIN COMEDY.

*Prerequisite: Courses 1 and 2. 2 hours, first semester.*

6. HORACE, *Satires* and *Epistles*.

*Prerequisite: Courses 1 and 2. 2 hours, second semester.*

7. TACITUS. Selections from *Histories* and *Annals*.

*Open to juniors and seniors who have completed 1 and 2. 2 hours, first semester.*

8. CATULLUS, TIBULLUS, PROPERTIUS.

*Open to juniors and seniors who have completed 1 and 2. 2 hours, second semester.*

9. LUCRETIUS. *De Rerum Natura*.

*Prerequisite: Courses 1, 2, 3 and 4. 2 hours, first semester.*

10. POST-AUGUSTAN PROSE AND POETRY.

*2 hours, second semester.*

11-12. ADVANCED PROSE COMPOSITION.

*Open to juniors and seniors. 1 hour, through the year.*

13-14. HISTORY OF LATIN LITERATURE.

*1 hour, through the year.*

15-16. LECTURES ON THE PRIVATE LIFE OF THE ROMANS.

*1 hour, through the year.*

## GERMAN

FRAULEIN RANDOLPH

1-2. ELEMENTARY COURSE. Grammar, prose composition, reading of short stories and plays by modern writers, memorizing of poetry, conversation.

*Open to students who present no German at entrance. 3 hours, through the year.*

3-4. INTERMEDIATE COURSE. Reading of modern German prose, and of the simpler classical dramas; grammar, prose composition, conversation.

*Open to students who present two units of German, or who have taken Course 1-2. 3 hours, through the year.*

5-6. COURSE IN GERMAN CLASSICS. Reading from the dramas and poems of Goethe, Schiller and Lessing. Lectures in the German language upon the classical period. Essays and oral reports upon assigned topics.

*Open to students who present three units of German, or who have taken Courses 1-2 and 3-4. 3 hours, through the year.*

7-8. ADVANCED GERMAN COMPOSITION AND SYNTAX. Selected passages from English authors translated into idiomatic German. Original themes upon assigned topics. Study of idioms, synonyms and syntax.

*Prerequisite: Courses 1-2 and 3-4, or their equivalents; especially recommended to those who expect to teach German. 1 hour, through the year.*

9-10. OUTLINE HISTORY OF GERMAN LITERATURE. A rapid survey of the principal movements and productions of the national literature, supplemented by assigned readings. This course is intended to serve as an introduction to the detailed study of special periods and is recommended to all students desiring to specialize in German.

*Prerequisite: Courses 1-2, 3-4, 5-6, or their equivalents, or by permission, to freshmen entering with 3 units of German. 1 hour, through the year.*

11-12. LITERATURE OF THE NINETEENTH CENTURY. Reading and discussion of representative works of the best known authors. Lectures. Essays.

a. The drama. 1 hour, through the year.

b. The novel. 2 hours, through the year.

*Prerequisite: Course 5-6.*

13-14. CONTEMPORARY LITERATURE. Rapid reading of current fiction and dramas with discussion of modern tendencies in literature. Lectures. Essays.

*Prerequisite: Course 5-6. 2 hours, through the year.*

15-16. LEGENDARY CYCLES OF THE MIDDLE AGES. A brief survey of Germanic mythology, tracing the origin and development of the principal legends. Reading of mediæval epics in modern German translation. Comparative study of the Wagnerian opera texts.

*Prerequisite: Courses 9-10 and 11-12. 2 hours, through the year.*

17. LESSING'S LIFE AND WORKS. Study of his critical and controversial writings.

*Prerequisite: Courses 7-8 and 11-12. 2 hours, first semester.*

18. SCHILLER'S LIFE AND WORKS. Study of his historical prose, philosophical poems and aesthetic, critical writings.

*Prerequisite: Courses 7-8 and 11-12. 2 hours, second semester.*

19. GOETHE'S LIFE AND WORKS. Survey of his life, with special reference to his prose writings.

*Open to juniors and seniors. 2 hours, first semester.*

20. GOETHE'S FAUST. PART I AND II. Development of the Faust legend and the genesis of Goethe's Faust. Methods of Faust interpretation.

*Open to juniors and seniors. 3 hours, second semester.*



21. HEINE AND THE ROMANTIC SCHOOL. Lectures and readings.

*Open to juniors and seniors. 2 hours, first semester.*

23-24. COLLOQUIAL GERMAN. Discussions and themes based upon German life, customs and travel.

*Open by permission to students electing the advanced courses. 1 hour, through the year.*

25-26. GERMANIC PHILOLOGY.

a. Gothic.

Grammar. Ulfilas' translation of the Bible. Lectures upon the development of the German language.

b. Middle High German.

Grammar. Selections from the Niebelungenlied, Hartman von Aue, Wolfram von Eschenbach. Lectures.

*Open to seniors and graduates. 2 hours, through the year.*

## FRENCH

MISS ELY

1-2. ELEMENTARY COURSE. Fraser and Squair's Grammar. Reading of short stories in French. Prose Composition. Special attention given to phonetic training and conversation.

*Offered to freshmen and sophomores who have presented no French at entrance. 3 hours, through the year.*

3-4. INTERMEDIATE COURSE. French literature as basis for study. Reading of representative French authors. Advanced grammar and composition. Conversation.

*Open to students who have presented one unit of French. 3 hours, through the year.*

5-6. FRENCH CLASSICS. Critical study of Racine, Corneille and Moliere. Composition, conversation, résumés of all plays read.

*Prerequisite: Course 3-4. 3 hours, through the year.*

7-8. THE PRECURSORS OF THE FRENCH ROMANTIC SCHOOL. Lectures on representative authors. Reading selections from Madame de Staël, Madame de Lafayette, Rousseau, Chateaubriand, Lamartine. Composition, conversation.

*Prerequisite: Course 5-6 or its equivalent. 2 hours, through the year.*

9-10. ORIGIN AND DEVELOPMENT OF THE FRENCH LANGUAGE. Lectures on the literature of the sixteenth century. Reading of selections from representative authors. Composition, conversation.

*Prerequisite: Course 3-4 or its equivalent. 2 hours, through the year.*

11-12. HISTORY OF FRENCH LITERATURE. Conducted in English, with special reference to Librarians and students planning similar lines of work.

*2 hours, through the year.*

13-14. CONTEMPORARY LITERATURE. Rapid reading of current fiction and drama with discussion of modern tendencies in literature.

*Prerequisite: Course 5-6 or its equivalent. 2 hours, through the year.*

15-16. PROSE COMPOSITION AND DICTATION AS A BASIS OF CONVERSATION. Thorough study of syntax, idioms and synonyms.

*Recommended to those who wish to teach. 1 hour, through the year.*

17-18. THE FRENCH DRAMA OF THE NINETEENTH CENTURY, with brief résumé of its earlier development. Rapid reading course. Composition based upon works read. Topics assigned for reports. Conversation.

*Prerequisite: Course 5-6. 2 hours, through the year.*

19-20. FRENCH EPICS. Lectures on *La Chanson de Roland*, *La Henriade*, *La Légende des Siècles*. Reading of the epics.

*Prerequisite: Course 17-18. 2 hours, through the year.*

21-22. CONVERSATIONAL COURSE BASED ON EVERY DAY LIFE AND TRAVEL. Supplementary reading of French magazines and newspapers required.

*1 hour, through the year.*

## ITALIAN

FRAULEIN RANDOLPH

1-2. ELEMENTARY COURSE. Grammar, prose composition. Reading of short stories and plays by modern authors. Memorizing of poetry. Conversation.

*Elective. 3 hours, through the year.*

3-4. INTERMEDIATE COURSE. Reading of modern Italian prose and of simple classical dramas. Grammar, prose composition. Conversation.

*Elective. Prerequisite: Course 1. 3 hours, through the year.*

## SPANISH

GIVEN UPON REQUEST

1-2. ELEMENTARY COURSE. Grammar. Reading of short stories and selections from Don Quixote. Special attention given to oral work, pronunciation and conversation.

*Elective. 3 hours, through the year.*

## ENGLISH

MR. PUTNAM, MISS COOLIDGE, MISS LINDSAY

D. ENGLISH COMPOSITION. A study of the principles of composition and rhetoric. Their application in short themes and long themes. Text book. Class room discussions. Individual conferences.

*Required of freshmen. 2 hours, through the year.*

1. THE SHORT-STORY. A reading course in the literature of the Short-Story. A study of its nature and development as a distinct form. Assigned readings. Criticisms. Discussions.

*Open to freshmen and specials. 3 hours, first semester.*

2. SHAKESPEARE. An intensive study of the idiom, poetry, dramatic structure, and character method of Shakespeare as exemplified in *The Merchant of Venice*, *Macbeth*, and *The Winter's Tale*.

*Open to freshmen and specials. 3 hours, second semester.*

3. FORMS OF POETRY. A study of the nature of poetry and of its various forms as exemplified by the nineteenth century poets in England. Page's *British Poets of the Nineteenth Century* is used as the basis of study. Assigned readings. Critical reports. Discussions.

*Open to freshmen and specials. 3 hours, first semester. Given in alternate years.*

4. FORMS OF FICTION. A study of the nature of prose fiction and of its types and characteristics. Complete masterpieces chosen from representative English novelists are read. Critical reports. Discussions. Lectures.

*Open to specials and by special arrangement to freshmen and sophomores. 3 hours, second semester. Given in alternate years.*

C-1. CHAUCER. A study of the language and literature of Chaucer. Lectures on his life and times.

*Required of sophomores. 2 hours, first semester.*

C-2. SURVEY OF ENGLISH LITERATURE. An outline study of development of English Literature from Beowulf to Kipling. Assigned Readings. Discussions. Lectures.

*Required of sophomores. 2 hours, second semester.*

5. NARRATION. An advanced course in the rhetoric of feeling. A study of the principles of description and narration. Themes. Conferences. Lectures.

*Open to all who have completed English D. 2 hours, first semester.*

6. ARGUMENTATION. An advanced course in the rhetoric of thought. A study of the principles of exposition and argumentation. Text book. Themes. Discussions.

*Open to all who have completed English D. 3 hours, second semester.*

7-8. ADVANCED THEMES. A course designed to meet the individual needs of students specializing in composition. It consists exclusively of theme-writing under the immediate supervision of the instructor. Frequent conferences. Only a limited number of students will be admitted each semester.

*1 or 2 hours, first or second semester.*

9. AMERICAN LITERATURE. An outline study of the development of American Literature. Lectures. Assigned readings. Reports.

*Open to sophomores, juniors, and seniors. 3 hours, first semester. Given in alternate years. Will be offered in 1915-1916.*

10. NINETEENTH CENTURY POETRY. A study of the romantic movement in English poetry from Burns to Kipling. Lectures. Assigned readings. Critical reports. The instructor reserves the privilege of confining the course to a group of poets or to the work of one poet.

*Open to sophomores, juniors, and seniors. 3 hours, second semester. Given in alternate years. Will be offered in 1915-1916.*

11-12. THE NOVEL. A study of the origin and development of prose fiction. Assigned reading of complete masterpieces of the representative novelists from Beowulf to DeMorgan. Reports. Lectures.

*Open to juniors and seniors. 3 hours, through the year. Given in alternate years. Will be offered in 1914-1915.*

13-14. ANGLO SAXON. A reading course in the grammar and language of Old English. The first semester is devoted to Anglo Saxon prose, and the second semester to Beowulf.

*Open to juniors and seniors. 3 hours, through the year. Given in alternate years. Will be offered in 1915-1916.*

15-16. THE DRAMA. An intensive study of the origin and development of the English drama. Lectures. Readings from the great dramatists.

*Open to juniors and seniors. 3 hours, through the year. Given in alternate years. Will be offered in 1914-1915.*

17-18. BROWNING. A seminar in the poetry and philosophy of Robert Browning. Lectures. Papers. Discussions.

*Open to juniors and seniors. 1 hour, through the year.*

### BIBLICAL LITERATURE

MISS BROWNSON, DR. FISHER

D. HISTORICAL STUDY OF THE LIFE OF CHRIST.

*Required of freshmen. 1 hour, through the year.*

C. THE APOSTOLIC AGE. The organization of the Christian Church and the development of its life and literature during the first century.

*Required of Sophomores. 1 hour, through the year.*

B. OLD TESTAMENT HISTORY. Studies in the development of the Hebrew people, the growth of political institutions, the influence of other nations, the religious life, the literature.

*Required of juniors. 1 hour, through the year.*

A. OLD TESTAMENT PROPHECY. A study of the development and characteristics of prophecy, the place of the prophets in the life of Israel, the relation of prophecy to history, Messianic prophecy.

*Required of seniors. 1 hour, through the year.*

1. HEBREW POETRY. A study of the poetry of the English Old Testament, especially the Psalms, the Proverbs.

*Elective, open to juniors and seniors. 2 hours, first semester.*

2. HISTORICAL GEOGRAPHY OF PALESTINE. The land in its physical aspects, the place of Syria in history, the interpretation of the Bible by geographical study, detailed survey of the country.

*Elective, open to juniors and seniors. 2 hours, first semester.*

3. BIBLICAL ARCHAEOLOGY. Studies of the results of modern exploration in Biblical lands.

*Elective, open to juniors and seniors. 2 hours second semester.*

## MATHEMATICS

MISS BENNETT

D-1. SOLID GEOMETRY. Theorems and constructions as given in Durell's *Solid Geometry*. Solution of numerous original exercises, including loci problems. Application to the mensuration of surfaces and solids.

*Required of freshmen. 3 hours, first semester.*

D-2. PLAIN AND SPHERICAL TRIGONOMETRY. Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles. Proofs of principal formulas, in particular for the sine, cosine and tangent of the sum and difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines; the transformation of trigonometric expressions by means of these formulas. Solution of trigonometric equations. Theory and use of logarithms. Solution of right, oblique and spherical triangles and practical applications.

*Required of freshmen. 3 hours, second semester.*

1. HIGHER ALGEBRA. Permutations and combinations. Complex numbers with graphical representation of sums and differences. Determinants including the solution of linear equations.



Numerical equations of higher degree and the theory of equations, with graphical methods, including Descartes' rule of signs and Horner's method.

*Students intending to pursue the course in higher mathematics are required to elect this course. Prerequisite: Course D-2. 2 hours, first semester.*

2. HISTORY OF MATHEMATICS. This course is offered in the belief that it is essential to a thorough understanding of elementary mathematics. It treats of the development of mathematics from the earliest known times to the invention of analytic geometry by Descartes in 1637. The subjects considered are number systems, numerals, arithmetic, algebra and geometry.

*Prerequisites Course D-2. 2 hours, second semester.*

3-4. ANALYTIC GEOMETRY, PLAIN AND SOLID.

*Prerequisite: Course D-2. 3 hours, through the year.*

5-6. DIFFERENTIAL AND INTEGRAL CALCULUS.

*Prerequisite: Course 3-4. 3 hours, through the year.*

7. HISTORY OF HIGHER MATHEMATICS.

*Prerequisite: Course 5-6, or may be taken parallel with Course 5-6. 2 hours, first semester.*

8. THE TEACHING OF ELEMENTARY MATHEMATICS. This course is intended for those who wish to teach mathematics in High Schools. Young's *Teaching of Mathematics* is used as a text book. Instruction is given in the explanation of Mathematical processes to elementary classes. Opportunity is afforded to observe teaching in the city High Schools.

*Prerequisite: Course 5-6, or may be taken parallel with Course 5-6. 2 hours, second semester.*

## ASTRONOMY

MISS BENNETT

1. ASTRONOMY. Descriptive and historical. Elementary facts and principles with mathematical exercises. Location of principal constellations with field and laboratory work.

The College owns a good  $4\frac{1}{4}$  inch refracting telescope, which is at the disposal of the student for observing the sun, moon, stars and nebulæ.

*Prerequisite: Mathematics, Courses D-1 and D-2. 2 hours, first semester.*

## PHYSICS

MISS HOLCOMB

1-2. GENERAL EXPERIMENTAL PHYSICS. Mechanics, sound, heat, light, electricity and magnetism. Illustrated lectures, recitations and problems. 3 hours a week; laboratory work, one 3 hour period a week. Text-book: Carhart's *College Physics*.

*Elective. 3 hours, through the year.*

This course, or courses 1 and 2 in chemistry, is required of students in the freshman or sophomore year.

3. SOUND. The physical theory of sound, musical instruments, and the acoustics of buildings. A lecture and recitation course. No laboratory work. This course is conducted especially for students in music and expression.

*1 hour, first semester.*

4. HEAT. Recitations, supplemented by experimental demonstrations and library study. Text-book: Edser's *Heat for Advanced Students*.

*Prerequisite: Course 1-2. 2 hours, second semester. Given in alternate years.*

5. LIGHT. Recitations, supplemented by illustrated lectures and library study. Text-book: Edser's *Light for Students*.

*Prerequisite: Course 1-2. 2 or 3 hours, first semester, alternating with Course 7.*

6. LIGHT. Laboratory work and special topics planned especially for students who expect to teach physics.

*Open only to those who elect Course 5. One 2 hour period, second semester.*

7. ELECTRICITY AND MAGNETISM. The course includes a study of the practical applications of electricity.

*Prerequisite: Course 1-2. 2 hours, first semester or 1 hour through the year.*

8. ELECTRICITY AND MAGNETISM. Laboratory work: the setting up of apparatus in wireless telegraphy and similar experiments.

*Open only to those who elect Course 7. One 2 hour period, second semester.*

9-10. GENERAL PHYSICS. A course planned for those expecting to teach Science.

*Prerequisite: Course 1-2. 1 or 2 hours, through the year.*

## CHEMISTRY

MISS BUTTERFIELD

1. GENERAL INORGANIC CHEMISTRY. Lectures and recitations on the history, occurrence, preparation, properties and uses of the more important elements and their compounds. In the laboratory the student prepares and transforms the chief substances studied. A few simple quantitative experiments are performed. Text-book: Stoddard's *Introduction to General Chemistry*.

*3 hours, first semester. Laboratory work, 3 hours weekly.*

This course, or course 1-2 in physics, required of students in the freshman or sophomore year.

2. QUALITATIVE ANALYSIS. Lectures, recitations, laboratory work. Ample practice in identifying unknown substances is given. The text-book used is Stoddard's *Qualitative Analysis*.

*Elective. Prerequisite: Course 1. 3 hours, second semester.*

This course must be taken by those offering Course 1 as required science.

3. ORGANIC CHEMISTRY. Lectures and recitations upon typical organic compounds, their relations and transformations. Text-books: Remsen, and Perkin and Kipping.

*Elective. Prerequisite: Course 1. 2 hours, first semester.*

4. QUANTITATIVE ANALYSIS. Laboratory work. Lectures on laboratory methods.

*2 hours, second semester.*

5. ORGANIC CHEMISTRY. Laboratory practice. Simple organic compounds are studied and the synthesis of more complex substances from these is taken up. In every preparation attention is given to quantitative results. Text-books used are Orndorff's *Manual of Organic Chemistry* and Gattermann's *Practical Methods of Organic Chemistry*. Students electing Course 3 are urged to take this course if possible.

*1 or 2 hours, first semester. Prerequisite: Courses 1, 2 and 3.*

6. ADVANCED ORGANIC CHEMISTRY. Two hours a week are devoted to lectures on methods. Each student is assigned a problem which she solves according to methods used in original research. An organic compound whose composition is unknown is examined and its empirical and structural formulas are determined. This determination involves the application of the most important laboratory methods used in organic research, such as combustions, molecular weight determination, etc. It is carried on independently by the student. After the correct solution of this problem, opportunity is offered the student of starting a problem in original work. The course is especially qualified to fit students for independent research and has that end in view.

*Prerequisite: Courses 1, 2, 3, 4; 5.*

7-8. LECTURES ON THEORETICAL CHEMISTRY. A systematic study is made of the atomic, kinetic and electrolytic theories of the constitution of matter.

*Elective. Prerequisite: Courses 1, 2, 3, and 4. 1 hour, through the year.*

9-10. PHYSICAL CHEMISTRY. Lectures and recitations.

*Prerequisite: Courses 1 and 2. 1 hour, through the year.*

11-12. SANITARY CHEMISTRY. Air, water and food analysis. A study of the application of chemistry to problems of public health.

*Prerequisite: Courses 1, 2, 3, 4, and 5. 2 or 3 hours, through the year.*

13-14. TEACHING OF CHEMISTRY. This course is designed for those intending to teach chemistry or for those wishing a comprehensive review of general chemistry with practice in handling special apparatus. The student must be able to perform difficult experiments in demonstration and to take charge of some of the laboratory work in Courses 1 and 2.

*Elective, open to seniors and others by special permission only. 1 or 2 hours, through the year.*

## BIOLOGY

MISS BUTTERFIELD

1-2. GENERAL BIOLOGY. Two lectures and one recitation per week, supplemented by one laboratory period of two hours. The course has been arranged especially for those who desire a general knowledge of biology as part of a liberal education as well as for those who are preparing for advanced work. Field trips will be taken.

*Elective, open to all classes. 3 hours, through the year.*

3-4. GENERAL BOTANY. Two lectures and one recitation per week, supplemented by one laboratory period of two hours. This course treats of plant life from the algæ to the phanerogams inclusive. The structure and development of certain plants are studied from seed germination to fruit formation. Students are trained to recognize the common flowers from their botanical structure and values.

*Elective, open to all classes. 3 hours, through the year.*

5. SYSTEMATIC INVERTEBRATE ZOOLOGY. This course consists of lectures and laboratory work on Protozoa, Porifera, Cœlenterata, Vermes, Echinodermata, Mollusca and Arthropoda.

*Elective, open to all classes. 3 hours, first semester.*

6. VERTEBRATE ZOOLOGY. The student becomes familiar with a series of types of vertebrates, studying the comparative anatomy and progressive modifications of a fish, reptile, frog, bird and mammal.

*Elective. Prerequisite: Course 5. 3 hours, second semester.*

7. ADVANCED VERTEBRATE ZOOLOGY AND PHYSIOLOGY. In this course the anatomy and physiology of a typical mammal are studied. The histology of the various tissues is worked out and the physiology of muscles and nerves is investigated.

*Elective. Prerequisite: Course 1-2. 2 hours, first semester. Laboratory work 4 hours weekly.*

8. STRUCTURE OF CELL AND PROTOPLASM. This course includes a study of numerous protozoa; the structure of a cell; development phenomena; cell division, spermatogenesis; oögenesis.

*Elective. 2 hours, second semester. Laboratory work, 4 hours weekly.*

9-10. THEORETICAL BIOLOGY. The lectures deal largely with the history of the development of modern biology. The works of Lamarck, Darwin, Weismann, and De Vries are discussed in connection with the theory of evolution.

*Elective. 1 hour, through the year.*

11-12. EXPERIMENTAL MORPHOLOGY. The object of the course is to familiarize the student with some of the more important problems of experimental morphology and with the methods of dealing with them. The work consists of lectures and laboratory experiments.

*Elective. 2 hours, through the year.*

13-14. HISTOLOGY AND MICROSCOPICAL TECHNIQUE. The work consists of laboratory practice in the preparation of material for microscopical study. This course is intended for those who expect to teach or do advanced work in biology.

*Elective, open to students by special permission. 2 hours, through the year.*

15. DENDROLOGY. A study of our common trees. The course will consist of one out-of-door trip per week together with independent observation on the part of the student. About ninety trees will be studied in their summer and winter aspects.

*1 hour, first semester.*

16. ORNITHOLOGY. Lectures on the habits, homes and coloration of birds. There will be a few field trips in the spring.

*1 hour, second semester.*

18. BOTANY. A course in botany for those who have offered botany for entrance, or who have completed *Biology 1-2*.

*2 hours, second semester.*

19-20. A brief course in general biology based on Conn's textbook.

*1 hour, through the year.*

## EXPRESSION

MISS KERST

The aim of this department is to foster in the student a larger appreciation of the truth and beauty of great prose and verse, and at the same time to develop the power of expressing to others the results of such literary work. Expressional study of the best kind cultivates beauty of speech, trains the intellect, educates the emotions and puts the student into full command of the forces of body and mind.

Elective courses are offered for all college classes, and private work may be arranged for by consultation with the instructor.



Persons not registered for courses in other departments may become special students in Expression.

Students' recitals are occasionally given.

1-2. GENERAL PRINCIPLES OF VOCAL EXPRESSION. Principles of articulation. Oral gymnastics for distinct, firm, fluent articulation. Physiology of vocal organs with exercises for developing the voice and improving its quality, also for correct breathing. Selections are analyzed and students are assigned definite work for presentation before the class.

*Elective, open to freshmen. 1 hour, through the year.*

3-4. VOCAL TECHNIQUE. The sonant properties of speech. Emphasis, inflection, phrasing, quality, force, pitch, time, pause, rhythm. This is a practice course. Platform recitations are made by the student for criticism.

*Elective, open to sophomores. 1 hour, through the year.*

5-6. INTERPRETATIVE READING. Shakespeare, Browning, Tennyson.

*Elective, open to juniors. 1 hour, through the year.*

7-8. PRINCIPLES OF VOCAL EXPRESSION AND LITERARY INTERPRETATION. Studies in paraphrasing; types of utterance; musical properties of speech; vocal technique; the relation of literature to recitation.

*Elective, open to seniors. 1 hour, through the year.*

9-10. DRAMATIC APPRECIATION. A study of the history of dramatic art and the theory of dramatic construction. Analysis of plays of the different periods in the history of the drama.

*Elective, open to all college students. 2 hours, first semester.*

11-12 STORY TELLING. The course is designed for those desiring to do story telling in play ground, children's library, school, settlement, Sunday school and home work. The study of story telling as related to child psychology; the origin and ways of telling stories; telling, classifying, grouping and adapting of stories.

*Elective, open to all social service students. 1 hour, first or second semester.*

## HISTORY AND THEORY OF MUSIC

MR. WHITMER

1-2 HARMONY. Study of chords in both modes. Ear training, analysis, harmonization. Immediate application of knowledge to composition of pieces in simple forms.

*1 hour, through the year.*

3-4. COUNTERPOINT AND COMPOSITION. Early and modern contrapuntal methods contrasted. Detailed study of melodic and rhythmic construction, with practical application to composition.

*Open to students who have taken Course 1-2. 1 hour, through the year.*

5-6. DOUBLE COUNTERPOINT, CANON AND FUGUE. Analysis and composition.

*Open to students who have taken Courses 1-2 and 3-4. 1 hour, through the year.*

7-8. MUSICAL FORMS AND FREE COMPOSITION. Analysis of both normal and radical musical formations with immediate practice. Development of freedom in use of material.

*Prerequisite: Courses 1-2 and 3-4. 1 hour, through the year.*

9-10. ORCHESTRATION. Detailed theoretical and practical study of orchestral instruments, their individual characteristics and their relation to the score. Score reading.

*Prerequisite: Courses 1-2, 3-4 and 5-6. 1 hour, through the year.*

11-12. HISTORY OF MUSIC. Study of the great works, composers and virtuosi. Development of notation. Comparative study of musical periods.

*Open to students who have taken or are taking Course 1-2. 1 hour, through the year.*

13-14. HISTORY OF MUSIC. Advanced course. Research work on special topics adapted to personal requirements.

1 hour, through the year. 2 hours, through the year. Open to students who have taken course 11-12.

15-16 APPRECIATION OF MUSIC. A free and untechnical study of men, masterpieces and criticism. Brief programs are given in connection with the lectures.

*Open to all students. 1 hour, through the year.*

The College believes in the cultural power of music and in its value in the higher education of women. It expects to enlarge the courses and to keep music on the high intellectual plane which is increasingly accorded to it by colleges.

Courses in the history and theory of music are counted toward the baccalureate degree. Practice courses may be so counted if combined with a proper amount of history and theory.

Information concerning courses in all departments of music may be found on pages 75 to 86.

## LECTURES

The following list comprises the lectures delivered to students as part of the academic work. They are given at a morning lecture hour and attendance is required.

### 1913-1914

Concert . . . . .	Mr. Whitmer, Mr. Mayhew
The Mormons . . . . .	Dr. William G. Paden
The Social Conscience . . . . .	Dr. J. Royal Harris
War and Armaments . . . . .	Mr. Langdon Davies
Girdling the Globe . . . . .	Mr. Wirt W. Barnitz
"Fighting in the Dark" . . . . .	Dr. Thomas Rhinehart
Illustrated Lecture on Wales - - -	Alice Dacre Butterfield
Student Volunteer Movement . . . .	Mr. Dalton McClelland
The Hague Tribunal . . . . .	Dr. William F. Slocum

### Christmas Service

Day of Prayer for Colleges . . . . .	Rev. J. Shane Nicholls
Memorial Service to Dr. Lindsay . . . . .	Rev. Robert Christie, D.D.
Concert . . . . .	Mrs. Ida S. Koelker
The Single Tax . . . . .	Grace Mable Colburn
Concert . . . . .	Mr. Whitmer, Mr. Mayhew, Miss Kerst

## RELIGIOUS AND SOCIAL LIFE

The College is thoroughly Christian in spirit and influence, but undenominational in its management and instruction. Students are expected to be present at daily prayers in the Chapel, and resident students to be regular attendants at church on Sunday mornings and at the Sunday Vesper services in Berry Hall. The Young Women's Christian Association maintains a mid-week prayer meeting and weekly Bible classes; and contributes to mission work at home and abroad. Systematic Bible study is one of the college requirements and four hours of such work are prescribed in the departments of literature and history.

The daily life of the residence halls is regulated by student government, under the direction of the house president and executive committee, who are elected by the students, subject to the approval of the Dean.

The College emphasizes religious and social life, for it believes both are essential parts of a liberal education. Arrangements for the comfort and well-being of resident students are made by the Dean and the social plans of all classes are submitted to her before action is taken. General receptions for students and their friends are held at mid-year and in connection with the Commencement exercises. Smaller gatherings of faculty and students occur at intervals throughout the year. The traditional College celebrations are those of Hallowe'en, Christmas, Saint Valentine's Day, and May Day, participated in by the student body. The separate classes take the initiative in more formal entertaining at suitable times. The Young Women's Christian Association gives a reception to new students at the beginning of the year, and conducts various benefits during the year for the support of its benevolent and missionary work.

## STUDENTS' CLUBS AND ASSOCIATIONS

The Student Government Association is organized to control such matters of college interest and discipline as may be delegated to it by the Faculty. Resident students have a branch of the Association which has in charge the interest of the dormitory life.

The Omega Society has a membership chosen with respect to scholarship and literary ability. Its work is the promotion of an interest in literature and the providing of opportunities for practice in the art of expression. The Society holds occasional open meetings for the presentation of special programs.

The Young Women's Christian Association holds weekly prayer meetings and monthly missionary meetings. It has organized Bible classes. The Association maintains a Bible Reader and a Kindergarten in India, and is responsible for the equipment of a room in the Young Women's Christian Association Building in Pittsburgh. Delegates are sent to the annual conventions and an active part is taken in all work looking toward the strengthening of the religious forces of the institution.

The Athletic Association is a wide-awake organization which affords the students of the College an opportunity to play basketball, tennis and all out-door games. It is the aim of the Association to foster the growth of college spirit and also to help with the running expenses of the tennis court and the basketball teams. Through the efforts of the members some very valuable apparatus has been purchased for the gymnasium.

The Dramatic Club has for its work the critical study of pieces of dramatic literature as a means of personal culture for its members, and the occasional presentation of carefully selected plays. The principal event of the club year is the production of Senior Dramatics at Commencement time. In 1913 the play presented was *Prunella or Love in a Dutch Garden*, by Laurence Housman and Granville Barker.

The Glee Club furnishes an excellent opportunity for training in voice. The club responds to many calls for its service at college affairs and occasionally in the city, and gives an annual concert. It has an enthusiastic membership and its work is much valued in the college life.

The Mandolin Club is open to students who play the mandolin, guitar or violin. An annual concert is given in connection with the Glee Club and music furnished, not only for college functions, but for entertainments given in the city.

## SCHOLARSHIPS AND PRIZES

Two scholarships are open to students of ability who expect to pursue regular courses of study, but who need financial aid in meeting the necessary expenses of a college education.

1. THE HELEN E. PELLETREAU SCHOLARSHIP. A fund has been raised by the Alumnæ to establish a scholarship in honor of Miss Helen E. Pelletreau, for many years the able and beloved President of the College. This fund has not yet been made up to the full amount necessary, and contributions to it are earnestly solicited. They should be sent to Miss Eleanor J. Stevenson, 3501 Fifth Avenue, Pittsburgh.

2. THE MARY HAWES NEVIN SCHOLARSHIP. To fulfill a wish expressed by the late Mary Hawes Nevin, an alumna of the Class of 1896, her family has given the sum of \$6,000 to establish a scholarship to bear her name, and thus perpetuate the memory of her beautiful life and her interest in young women ambitious for the advantage of a college course.

The Helen E. Pelletreau Scholarship is awarded by the Scholarship Committee of the Alumnæ Association, the Mary Hawes Nevin Scholarship by Mrs. John I. Nevin. These scholarships are held for one year, but may be renewed upon application.

## CORRESPONDENCE

Business inquiries and letters concerning the entrance of students should be addressed to Pennsylvania College for Women, Pittsburgh, Pa. Personal letters or particular communications of parents in regard to their daughters should be sent to the Acting-President, Miss Cora Helen Coolidge.



## TEACHERS' REGISTRY

The College is deeply interested in the welfare of its Alumnae and is willing to coöperate actively with those who desire to secure teaching positions. A registry will be kept for the purpose and eligible candidates will be recommended to schools desiring to fill vacancies in their faculty lists.

## FEES

	PER YEAR
Tuition . . . . .	\$125.00
Room rent, including light and heat . . . . .	100.00
Table board . . . . .	175.00
Physical Training—	
Private lessons, twice a week . . . . .	\$100.00
Private lessons, once a week . . . . .	60.00
In classes of four, twice a week . . . . .	25.00
Expression—	
Private lessons, twice a week . . . . .	100.00
Private lessons, once a week . . . . .	60.00
Laboratory—	
Biology 1-2 Physics 1-2 or Chemistry 1 and 2 . . . . .	10.00
Advanced science course fee in proportion to material used.	
Tutoring, per hour . . . . .	1.00
Private Examination . . . . .	2.00
Diploma—	
Bachelor of Arts . . . . .	5.00
Master of Arts . . . . .	10.00
Laundry, plain pieces, per dozen . . . . .	.50
Luncheon, for day students . . . . .	.25
Boarding during vacation, per week . . . . .	7.00

## REGISTRATIONS FOR PAYMENT

Tuition will be remitted to resident students who are daughters of ministers. A reduction of \$25.00 will be made to day students who are daughters of ministers or of teachers.



All bills for boarding, tuition and extras are due, one-half at the beginning of the college year and the remainder on February 1. Checks should be made payable to Pennsylvania College for Women.

All arrangements for the study of music are made for the entire term. Lessons cannot be discontinued except for valid reason and due notice must be given. No deduction will be made for lessons lost by the student. As engagements with instructors and other provisions for the education of students are made by the College for the entire year in advance, *no deduction can be made in the charge for tuition for either resident or day students.*

No degrees will be conferred unless all bills due to the College by the candidate have been paid.

### APPLICATION FOR ROOMS

All applications will be registered and rooms not engaged by former students will be assigned according to the date of application. There are a few double rooms, but the bedrooms are generally arranged in suites of two single rooms. Any information concerning the rooms will be given upon application to the Dean.

Resident students are received for *the year only*, or so much of it as remains at the time of entrance. Parents or guardians will be held responsible for full payment for resident students from *the date at which they had engaged to enter their daughters or wards until the close of the year in June, and no deduction will be made in bills because of absence or premature withdrawal except in case of serious and protracted illness, when the loss for board and room will be equally shared.*

All unnecessary wear of carpets, furniture, etc., is charged to the students occupying the room.

## DEGREES CONFERRED IN 1913

### BACHELOR OF ARTS

Atkinson, Helen Faye . . . . .	Wilkinsburg
Blair, Helen Eliza . . . . .	Pittsburgh
Cameron, Christine Ethloine . . . . .	Edgewood Park
Clark, Laila Lenore . . . . .	Pittsburgh
Colestock, Claire . . . . .	Pittsburgh
Craig, Mary Helen . . . . .	Wilkinsburg
Fletcher, Louise Emily . . . . .	Jamestown, N. Y.
Geiselhart, Emma Henrietta . . . . .	Pittsburgh
Gray, Jeanne Maclean . . . . .	Pittsburgh
Keys, Florence Rebecca . . . . .	Clarksville
Kingsbacher, Florence . . . . .	Pittsburgh
Layman, Lucy Abbott . . . . .	Pittsburgh
Minor, Margaret . . . . .	Pittsburgh
McCague, Elizabeth Snowden . . . . .	Sewickley
Rosenbloom, Esther Gertrude . . . . .	Braddock
Titzell, Marguerite Gates . . . . .	Kittanning
Wayne, Sylvia D. . . . .	Pittsburgh
Weihe, Elsie Naomi . . . . .	Connellsville
Wilson, Grace McMaster . . . . .	Pittsburgh
Young, Martha Elizabeth . . . . .	Vandergrift

### MASTER OF ARTS

Stahlman, Calla Loree . . . . .	Vandergrift
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## **CERTIFICATES GRANTED IN 1913**

### **CERTIFICATE IN MUSIC**

Weston, Anna Mildred . . . . . Gallitzin

### **CERTIFICATES IN SOCIAL SERVICE**

Atkinson, Helen Faye . . . . . Wilkinsburg  
Blair, Helen Elizabeth . . . . . Pittsburgh  
Cameron, Christine Ethloine . . . . . Edgewood Park  
Fletcher, Louise Emily . . . . . Jamestown, N. Y.  
Foster, Mary Elizabeth . . . . . Crafton  
Geiselhart, Emma Henrietta . . . . . Pittsburgh  
Gray, Jeanne Maclean . . . . . Pittsburgh  
Wayne, Sylvia . . . . . Pittsburgh  
Wilson, Grace McMaster . . . . . Pittsburgh

## STUDENTS IN 1913-1914

### SENIORS

Boggs, Marjory Annette	Pittsburgh
Brown, Margaret Hardy	Pittsburgh
Brownlee, Janet Lowrie	Washington
Burt, Charlotte Pauline	Crafton
Goeddel, Gertrude Elizabeth	Pittsburgh
Husband, Juanita Marie	Mt. Pleasant
Knight, Phoebe Male	Clairton
Kochersperg, Josette	Jamestown, N. Y.
McWilliams, Mildred Margaret	Pittsburgh
McBurney, Mary Marguerite	Cancnsburg
Plympton, Giulietta Adelinda	Pittsburgh
Rider, Hazel Nancy	Uniontown
Rutherford, Anna Margaret	Washington
Sander, Helen Marguerite	Pittsburgh
Savage, Mary Evans	Homestead
Stewart, Margery	Pittsburgh
Williams, Ethel Mae	Glassport

### JUNIORS

Burleigh, Lorna	Pittsburgh
Cameron, Elizabeth Charlotte	Edgewood Park
Campbell, Janet Douglas	Pittsburgh
Davies, Grace Mary	Pittsburgh
Estep, Mary Hall	Pittsburgh
Jeffrey, Mary Ruth	Pittsburgh
Johnston, Jane	California
Losa, Olga Emilie	Coraopolis
Morris, Virginia Irish	Edgewood Park

## SOPHOMORES

Bair, Ethel Cordelia . . . . .	Edgewood Park
Bannerot, Alberta Emma . . . . .	Pittsburgh
Boale, Frances Eleanor . . . . .	Vandergrift Heights
Crouse, Rebekah Le Fevre . . . . .	Sharpsburg
Errett, Dorothy . . . . .	Carnegie
Frame, Gertrude Levis . . . . .	Pittsburgh
Foran, Raphael Marie . . . . .	Wilkinsburg
Gaw, Edna McConnell . . . . .	Pittsburgh
Geary, Rosemarie . . . . .	Wilkinsburg.
Gibbons, Martha . . . . .	Butler
Greer, Alice Margaret . . . . .	Canonsburg
Hill, Leila . . . . .	Crafton
Laidlaw, Alice Marie . . . . .	Edgewood Park
Lee, Margaret Marie . . . . .	Wilkinsburg
Lewis, Leora Madeline . . . . .	Pittsburgh
Martin, Melba R. . . . .	Pittsburgh
Nichols, Mildred . . . . .	Pittsburgh
Riggs, Jean Stewart . . . . .	Wellsville, O.
Robb, Mary Kathryn . . . . .	Wilkinsburg
Slater, Amelia Olive . . . . .	Wilkinsburg
South, Seba Graham . . . . .	Sewickley
Steele, Helen Elizabeth . . . . .	Pittsburgh
Thompson, Helen Leighton . . . . .	Pittsburgh
Weihe, Lillian Margaret . . . . .	Connellsville
Woodrow, Grace De Haven . . . . .	Pittsburgh

## FRESHMAN

Blume, Isabel Margaret . . . . .	Pittsburgh
Claster, Leah . . . . .	New Kensington
Crandall, Martha Johnson . . . . .	Warren
Crytzer, Mona Lois . . . . .	New Kensington
Dorman, Agnes Letitia . . . . .	Pittsburgh
Dunbar, Martha B. . . . .	Burgettstown,

Eggers, Dorothy Ursula . . . . .	Pittsburgh
Errett, Jane Elizabeth . . . . .	Carnegie
Evans, Edna May . . . . .	Jeannette
Frazier, Anna Louise . . . . .	Monessen
Gokey, Clara Ruth . . . . .	Jamestown, N. Y.
Law, Ruth Jane . . . . .	Pittsburgh
Lyons, Martha Rebecca . . . . .	Pittsburgh
McClelland, Elizabeth Day . . . . .	Pittsburgh
McCracken, Esther Margaret . . . . .	Pittsburgh
Pardee, Helen Louise . . . . .	Pittsburgh
Pyle, Mary Helen . . . . .	Pittsburgh
Ramsey, Katherine Lowry . . . . .	Edgewood Park
Reinecke, Louise . . . . .	Pittsburgh
Shepard, Estelle . . . . .	Pittsburgh
Spriggs, Ada Marian . . . . .	Washington, Pa.
Stoebner, Margaret Dorothy . . . . .	Pittsburgh
Stratton, Mary Jane . . . . .	Pittsburgh
Van Eman, Alene . . . . .	Pittsburgh
Williams, Doris . . . . .	Pittsburgh

### STUDENTS IN SPECIAL COURSES

Abbot, Helen . . . . .	Pittsburgh
Bamford, Martha Gordon . . . . .	Midway
Bates, Elizabeth . . . . .	Palo Alto, Cal.
Beatty, Leilah . . . . .	Home
Beer, Dorcas Katherine . . . . .	Bucyrus, O
Berkman, Bella . . . . .	Pittsburgh
Burgham, Florence M. . . . .	Canton, O.
Burgham, Jessie . . . . .	Canton, O.
Burkart, Alpha . . . . .	Pittsburgh
Burkart, Phyllis . . . . .	Pittsburgh
Cooper, Mildred . . . . .	Unity
Craig, Mary Helen . . . . .	Pittsburgh
Crossett, Ethel Jane . . . . .	Kittanning

Darrah, Alice . . . . .	Pittsburgh
Davis, Janet . . . . .	Oakmont
Dutson, Mary L. . . . .	Pittsburgh
Early, Mrs. Geo. P. . . . .	Pittsburgh
Eberhart, Constance . . . . .	Pittsburgh
Elk, Helen . . . . .	Pittsburgh
Emblem, Mrs. Geo. . . . .	Pittsburgh
Fisher, Lillian . . . . .	New Kensington
Ford, Jane Long . . . . .	Jeannette
Golder, Helen Katherine . . . . .	Pittsburgh
Homer, Susie . . . . .	Pittsburgh
Horner, Mary . . . . .	Pittsburgh
Hudson, Sarah . . . . .	Pittsburgh
Jackson, Helen S. . . . .	Pittsburgh
Jennings, Mrs. O. E. . . . .	Pittsburgh
Keil, Alma Luella . . . . .	Sharpsburg
Kindl, Louise . . . . .	Pittsburgh
Kohne, Dorothy . . . . .	Pittsburgh
Krebs, Margaret . . . . .	Pittsburgh
Kroenert, Martha J. . . . .	Pittsburgh
Latham, Margaret . . . . .	Pittsburgh
Loftus, Irene J. . . . .	Youngstown, O.
Mackey, Janet . . . . .	New York
Mahey, Jeanne Cyrene . . . . .	Pittsburgh
Mayhew, Emma . . . . .	Pittsburgh
McCaw, Pauline . . . . .	Dennison, O.
McClelland, Helen . . . . .	Pittsburgh
McKenzie, Katherine . . . . .	Aspinwall
Messner, Miriam B. . . . .	Warren
Müller, Ruth Emma . . . . .	Fairmont, W. Va.
Morland, Eva . . . . .	Beaver
Morse, Lucille . . . . .	Pittsburgh
Myers, Mrs. F. O. . . . .	Crafton
Reed, Mrs. Frank . . . . .	Pittsburgh
Robinson, Mabel I. . . . .	Pittsburgh



Robb, Mary Amelia . . . . .	Carnegie
Rosenbloom, Florence . . . . .	Pittsburgh
Rosenbloom, Esther . . . . .	Pittsburgh
Saint, Margaret . . . . .	Pittsburgh
Schlegel, Helen . . . . .	Crafton
Stevens, Gertrude . . . . .	Pittsburgh
Stevenson, Euphemia . . . . .	Pittsburgh
Stevenson, Mrs. W. T. . . . .	Pittsburgh
Stuckslager, Helen . . . . .	Braddock
Succup, Florence . . . . .	Pittsburgh
Thompson, Marjorie . . . . .	Pittsburgh
Tobey, Mrs. Edward A. . . . .	Pittsburgh
Trimble, Nellie Irene . . . . .	Jeannette
Turner, Dorothy . . . . .	Freeport
Weber, Lucile . . . . .	Pittsburgh
West, Lillian . . . . .	Pittsburgh
West, Nellie . . . . .	Pittsburgh
Weston, Anna Mildred . . . . .	Gallitzin

## ALUMNAE ASSOCIATION

The Association has its headquarters at the College and holds its annual meeting in the Assembly Hall on the Friday preceding Commencement day. It publishes annually the *Alumnæ Recorder*, containing a list of graduates, corrected by the latest information obtainable, and many items of interest concerning *Alumnæ* and former students.

The officers of the Association for the year 1913-1914 are:

President—Mrs. Geo. Porter, '99.

Vice President—Miss Mary R. Breed, '89.

Secretary—Mrs. Florence Parry Carmack, '99.

Treasurer—Miss Ann Huston, '02.

The Association is fully in sympathy with college plans and purposes and manifests its feeling in very practical ways. Three clubs of recent *Alumnæ* have been organized, members of the classes between 1890 and 1900 forming Decade Club I, graduates from 1900 to 1910 constituting Decade Club II, and graduates from 1911 on forming Decade Club III. The *Alumnæ* Lecture Committee has again undertaken to raise and administer a fund by means of which lectures may be given in the Assembly Hall for the benefit of undergraduates and *Alumnæ*.

## **SCHOOL OF EXPRESSION**

### **REQUIREMENTS FOR CERTIFICATE IN EXPRESSION**

1. Seven hours of college work a year for two years, which may be chosen from Rhetoric, English, History, Modern Languages, Aesthetic Dancing, Plays and Games. Physics, Psychology, Education.
2. Seven hours of work a year, in the Department of Expression for two years, including all the courses offered by the department, and two private lessons per week.
3. The presentation of one public program the first year, and two the second with the final program at graduation.

**SCHOOL OF SOCIAL SERVICE**



## COURSES IN SOCIAL SERVICE

Special courses in Social Service are open to students who may elect them as part of the work leading to the degree of Bachelor of Arts, or to well prepared special students.

In these days of social awakening society demands the service of educated women. In the home and church and in neighborhood groups are needed women who are familiar with the best methods of philanthropy. In the public school, which promises to become the central agency for social reform, are needed teachers with the social view point and the spirit of service. In many kinds of professional, civic and philanthropic work the demand for workers with college education is greater than the supply. The college woman of today, not content to spend years in studying for cultural satisfaction only, responding to the spirit of the times, is eager to make her acquirements in knowledge and training count for the general good.

In its courses in Social Service the college recognizes both the demands of the times and of the student. In so-called "Social work" mental discipline and extensive knowledge are essential to efficiency, and nowhere can this part of the worker's equipment be gained so readily as in college. To prepare students for social work, Pennsylvania College for Women offers not only its special courses in Social Service, but also all its resources. The student is guided to supplement these social studies with arts and sciences of which she can make practical use, and to relate her other studies to social work.

The full course covers two years. The program of the first year is planned to give a general outlook over the field of social endeavor. To this end weekly visits of observation are made to institutions. In the class room the causes of poverty, the history of philanthropy and the principles underlying charitable agencies (including those visited) are studied. The program of the second year is planned to give detailed information and practice. The student goes weekly to a philanthropic or civic agency and works under the direction of one of Pittsburgh's experienced social workers. In the class room are studied methods of caring for the needy by public institutions, by organized charity and by individuals. A third year is arranged to meet the needs of those who, having begun the study in the sophomore year

decide to enter social work professionally and feel their need of additional study and practice.

For the certificate in Social Service, courses in economics, sociology, education through plays and games, and story-telling, are required. Courses in biology, psychology, ethics, history of education and subjects required by the College for the degree of Bachelor of Arts, are recommended. Modern languages, music, and physical training are valuable aids in practical work.

Pittsburgh, with its great industries and its diversified philanthropies, is an unusual field for observation, investigation and practical work. Many institutions and agencies coöperate with the college in these courses, and many experienced social workers give lectures at the College or at the places where they work.

The special student who applies for admission to social service courses must be eighteen years old, she must have a high school diploma or its equivalent and she must give satisfactory references to show that she has character and purpose.

A certificate is given to students completing this course. It shows (1) the ground covered in the study of theory,—text-books and supplementary reading; (2) the actual practice work done by the student; (3) related subjects studied in other special courses or in the regular courses of the College; (4) the subject of a thesis based upon knowledge gained by the student in an original investigation.

For Social Service with related branches of study, the regular college tuition will be charged. The College dormitory is open to students in these courses.



## **MUSIC SCHOOL**



## FACULTY

\*HENRY D. LINDSAY, D.D., PRESIDENT

CORA HELEN COOLIDGE, DEAN

T. CARL WHITMER, DIRECTOR  
Piano, Organ, Harmony and Composition

IDA STARK KOELKER  
Piano, Leschetizky method

CHARLES EDWARD MAYHEW  
Singing and Choral Direction

MRS. C. E. MAYHEW  
Singing and Sight Singing

ANNA MILDRED WESTON  
Harmony

F. J. BROSKY  
Violin

\*Deceased



## MUSIC

Unusual opportunities are offered at Pennsylvania College for Women for the study of this branch of Art. The Music School connected with the College has been enlarged and reorganized. Sixteen pianos are available for daily practice; and a fine three-manual and pedal pipe organ, with electric blower, makes it possible for students to secure great advantages in the way of practical work. Instruction is given in Grand Organ, Piano, Voice, Violin, Cornet and other instruments, if desired.

Students taking college courses may have two hours of music counted toward a degree, on condition that one hour is theoretical instruction, with which one hour of practice may be combined by permission of the Faculty. A descriptive list of music courses carrying college credit will be found on page 55-56.

A wide range of electives has also been provided for music students who are not candidates for the B. A. degree. Satisfactory completion of a definite amount of theoretical and practical work will entitle students to receive certificates in Piano, Organ, Singing and Musical Pedagogy. A detailed statement is given on pages 80-86 of the courses offered in the Music School, and of the requirements for a certificate in any one of the departments.

It has been the constant aim of the Director to have the teaching in every line of work based on correct comprehension of the laws of the mind. The system of piano study used is rational in every respect, and represents the highest form of musical pedagogy so far reached, leading the student to a positive technic, repose, and a wide range of expressive power. Our students are trained to think, to practice, to memorize, to play, to teach.

The organ work is upon the same intellectual plane as that of the piano. Sight reading, modulation, transposition and improvisation are studied methodically and problems of technic are systematized.

The development of the memory receives especial attention in order that the student may not only acquire a large repertoire but have it constantly available for use.

## THEORETICAL COURSES

1-2. HARMONY. Study of chords in both modes. Ear training, analysis, harmonization. Immediate application of knowledge to composition of pieces in simple forms.

*1 hour, through the year. 2 hours, through the year.*

3-4. COUNTERPOINT AND COMPOSITION. Early and modern contrapuntal methods contrasted. Detailed study of melodic and rhythmic construction with practical application to composition.

*Prerequisite: Course 1-2. 1 hour, through the year.*

5-6. DOUBLE COUNTERPOINT, CANON AND FUGUE. Analysis and composition.

*Prerequisite: Courses 1-2 and 3-4. 1 hour, through the year.*

7-8. MUSICAL FORMS AND FREE COMPOSITION. Analysis of both normal and radical musical formations with immediate practice. Development of freedom in use of material.

*Prerequisite: Courses 1-2 and 3-4. 1 hour, through the year.*

9-10. ORCHESTRATION. Detailed theoretical and practical study of orchestral instruments, their individual characteristics and their relation to the score. Score reading.

*Prerequisite: Courses 1-2, 3-4 and 5-6. 1 hour, through the year.*

11-12. HISTORY OF MUSIC. Study of the great works, composers and virtuosi. Development of notation. Comparative study of musical periods.

*Open to students who have taken, or are taking, Course 1-2. 1 hour, through the year.*

13-14. HISTORY OF MUSIC. Advanced course. Research work on special topics adapted to personal requirements.

1 hour, through the year. 2 hours, through the year. Open to students who have taken course 11-12.

15-16. APPRECIATION OF MUSIC. A free and untechnical study of men, masterpieces and criticism. Brief programs are given in connection with the lectures.

Open to all students. 1 hour, through the year.

### COURSES IN SINGING

1. ELEMENTARY COURSE. Control of the breath. Development of resonance and beauty of tone in relation to vowel sounds. Studies in the formation of consonants. Ear training—intonation and rhythm. Simple exercises and songs.

2. INTERMEDIATE COURSE. Continuation of Elementary Course. Florid exercises—scales, roulades, trill, and other embellishments. Special work in articulation, phrasing, freedom of tone and of facial expression. Advanced vocalises and songs.

3. ADVANCED COURSE. Development of style. Interpretation—analysis of thought in song poems. The treatment of different schools of composition. The preparation of recital programs. Special studies—Church—Oratorio—Concert—Opera.

4. NORMAL COURSE. Résumé of Elementary, Intermediate, and Advanced Courses. Studies in the causes and treatment of various vocal vices, such as the tremolo (in its different phases), nasality, faulty intonation, etc. The consideration of the individuality of pupils, in connection with which study opportunity will be afforded for observation.

### REQUIREMENTS FOR CERTIFICATE IN PIANO

1. PRACTICAL. The presentation of a program at graduation which shall be the equivalent of the following:

- ( 1 ) Caprice (Alceste), *Gluck—Saint-Saëns.*
- ( 2 ) Prelude and Fugue, *Bach.*
- ( 3 ) Nocturne in F sharp, *Chopin.*
- ( 4 ) Etude, Op. 25, No. 10, *Chopin.*



- ( 5) Adagio from Sonata, Op. 2, No. 2, *Beethoven*.
- ( 6) Gigue in A, *Bach-MacDowell*.
- ( 7) Polichinelle, *Rachmaninoff*.
- ( 8) Sonata, No. 4, *MacDowell*.
- ( 9) Jeux d' Eau, *Maurice Ravel*.
- (10) Etude III. (La Campanella,) *Paganini-Liszt*.

2. THEORETICAL. Harmony and Single Counterpoint in four parts, five species. Double Counterpoint in the octave, fifteenth, tenth and twelfth. An example of Counterpoint no less than forty-eight measures in four parts, mixed species. A hymn tune over words to be selected by the Director. Two compositions, vocal or instrumental, in selected forms. Completion of this course must agree with date of certificate.

3. HISTORICAL. The course, 11-12, as outlined in Pratt's *History of Music* and course 13-14.

4. COLLEGIATE. Seven hours of college work a year for two years, which may be chosen from Modern Languages, Rhetoric, English, History and Physics 3, at the discretion of the President and the Dean.

## REQUIREMENTS FOR CERTIFICATE IN ORGAN

1. PRACTICAL. The presentation of a program equivalent to the following:

- (1) Fantasia and Fugue in G minor, *J. S. Bach*.
- (2) Overture to Midsummer Night's Dream, *Mendelssohn*.  
(Arranged by Samuel P. Warren.)
- (3) Fanfare, *T. Carl Whitmer*.  
(Published by Clayton Summy Co., Chicago).
- (4) Improvisation on a given Theme.
- (5) Symphony, No. V, *Chas. Marie Widor*.
  - 1. Allegro Vivance.
  - II. Allegro Cantabile.

III. Andantino quasi Allegretto.

IV. Adagio.

V. Toccata.

*Piano*—To organists the possession of a matured piano technic is absolutely indispensable.

2. THEORETICAL. The same as the prescribed for graduation in piano.

3. MECHANICAL. Ability to tune reed pipes and to repair all ordinary disorders of the organ.

4. COLLEGIATE. The same as that prescribed for graduation in piano.

### REQUIREMENTS FOR CERTIFICATE IN SINGING

1. PRACTICAL.

a. The presentation of a program equivalent to the following:

Se tu m'ami, se sospiri . . . . .	<i>Pergolesi</i>
Quand de bien-aimé reviendra . . . . .	<i>Delayrac</i>
My heart ever faithful . . . . .	<i>Bach</i>
Dein bin ich . . . . .	<i>Mozart</i>
When love is kind . . . . .	<i>Old Irish</i>
Nymphs and Shepherds . . . . .	<i>Purcell</i>
Die Lorelei . . . . .	<i>Liszt</i>
Die Junge Nonne . . . . .	<i>Schubert</i>
Er der Herrlichste von Allen . . . . .	<i>Schumann</i>
An eine Aeolsharfe . . . . .	<i>Brahms</i>
All mein Gedanken . . . . .	<i>Strauss</i>
Villanelle . . . . .	<i>Berlioz</i>
Vieille Chanson . . . . .	<i>Bizet</i>
Romance . . . . .	<i>Debussy</i>
The Wind at Dawn . . . . .	<i>Elgar</i>
Like as the Thrush in Winter . . . . .	<i>Stanford</i>
A ruined Garden . . . . .	<i>Farwell</i>
Forest Song . . . . .	<i>Whelpley</i>

b. The course in piano up to grade four.

2. THEORETICAL. The same as that prescribed for graduation in piano.

3. HISTORICAL. The same as that prescribed for graduation in piano.

4. COLLEGIATE. The same as that prescribed for graduation in piano.

*Class work, choral and sight reading is required throughout the course.*

## TEACHERS' COURSE

As all conscientious teachers are anxious to acquire the best methods, the College has thought it worth while to offer a special and most helpful course for the benefit of those teachers who are so occupied with their own professional work as to be unable to register for the regular courses detailed above, and who especially wish to master principles and methods of teaching.

### REQUIREMENTS FOR THE TEACHERS' CERTIFICATE

1. PRACTICAL.

a. Ability to play through fourth grade work in piano.

b. A teaching experience of one and one-half years.

2. THEORETICAL. The same as that prescribed for graduation in piano.

3. COLLEGIATE. The same as that prescribed for graduation in piano.

*If voice or violin is elected as the major subject, piano work up to grade three will be accepted.*

## PUBLIC SCHOOL MUSIC

A course for supervisors covering the theoretical and practical phases of work in the Public Schools.

## DEPARTMENT OF CHURCH MUSIC

The College is prepared to offer exceptional facilities for the study and practice of Church Music. Solo organ playing, accompanying of solos and anthems, and choir training form the work for this course.

## PITTSBURGH AND ITS MUSIC

Students have splendid opportunities to hear frequently the world's greatest artists in opera and concert, usually at special reduction in prices.

All these influences are of inestimable value in a musical education, so that a college outside of a great city can never compete with one within in the formative, cultural factors always at work.

It is suggested that a fee of Ten Dollars be deposited with the Director of Music to be used at his discretion for the important concerts of the year, arrangements for which must be made early in the season.

### COURSES AND TERMS

		Per Semester	
		one lesson weekly	two lessons weekly
Grand Organ		\$40	\$75
<i>Three-manual pipe organ for lessons and practice, blown by electric motor.</i>			
Piano		30-40	50-75
Voice		30	50
Harp	}	30	50
Guitar			
Mandolin			
Use of Organ, one period daily			15
Use of Piano, one period daily			10
Violin, (per lesson)			2
Single lesson in Piano, Organ or Voice			5

### THEORETICAL COURSES

History of Music	}	Private Instruction at Piano rates. Class Instruction, for those not otherwise classified, \$15 per semester.
Harmony		
Counterpoint		
Canon		
Fugue		
Composition		
Orchestration		

## ORCHESTRAL INSTRUMENTS

Students desiring to study any orchestral instrument will be provided with an instructor from the ranks of the Pittsburgh Orchestra.

All arrangements for the study of music are made for the entire term. Lessons cannot be discontinued except for valid reasons, and due notice must be given. No deduction will be made for lessons lost by the student.

## FREE ADVANTAGES

*(Open to all Students)*

Harmony Class, Ensemble Class, Choral Class, Music Club, Sight-Singing Class, Class in Musical Appreciation, Glee Club, Mandolin Club, Concerts and Lectures.

## MUSIC STUDENTS

### PIANO

Ashford, Florence Elizabeth	Pittsburgh
Bamford, Martha Gordon	Midway
Bannerot, Alberta	Pittsburgh
Bradt, Mary	Pittsburgh
Burgham, Jessie	Canton, Ohio.
Burgham, Florence M.	Canton, Ohio.
Cooper, Mildred	Unity
Crytzer, Mona Lois	New Kensington
Darrah, Alice	Pittsburgh
Dorman, Agnes Letitia	Pittsburgh
Dunbar, Martha B.	Burgettstown
Dunlap, Dorothy	Pittsburgh
DuShane, Grace	Mill Run
Elk, Helen	Pittsburgh
Evans, Edna May	Jeannette
Farr, Lois	Avalon
Farr, Florence	Avalon
Ferguson, Ruth	Pittsburgh
Fisher, Lillian	New Kensington
Fitzgerald, Herena	Apollo
Ford, Jane Long	Jeannette
Gaston, Marion	Pittsburgh
Goeddell, Gertrude Elizabeth	Pittsburgh
Golder, Helen Katherine	Pittsburgh
Homer, Susie	Pittsburgh
Hommel, Evelyn L.	Brownsville
Horner, Mary	Pittsburgh
Horrocks, Alice	Millvale
Hudson, Sarah	Pittsburgh
Jackson, Helen S.	Pittsburgh
Kennedy, Katherine	Munhall
Litchfield, Ethel	Pittsburgh

Loftis, Irene J. . . . .	Youngstown, O.
McCaw, Pauline . . . . .	Dennison, O.
McCurdy, Elizabeth . . . . .	Sheridan
McWilliams, Mildred . . . . .	Pittsburgh
Mackey, Janet . . . . .	New York
Mayhew, Mrs. Emma . . . . .	Pittsburgh
Miller, Ruth Emma . . . . .	Fairmont, W. Va.
Mitchell, Adelaide . . . . .	Pittsburgh
Patterson, Wilda Van U. . . . .	Cleveland, O.
Peacock, Irene . . . . .	Pittsburgh
Pew, Helen . . . . .	Pittsburgh
Pew, Mary . . . . .	Pittsburgh
Shane, Mabel W. . . . .	McDonald
Schlegel, Helen . . . . .	Crafton
Sneathen, Ethel . . . . .	Pittsburgh
Spencer, Elizabeth . . . . .	Pittsburgh
Steele, Helen Elizabeth . . . . .	Pittsburgh
Stevenson, Elizabeth . . . . .	West Newton
Stuckslager, Helen . . . . .	Braddock
Tilbrook, Helen . . . . .	Pitcairn
Tillinghast, Marion . . . . .	McDonald
Thompson, Madeline . . . . .	Pittsburgh
Ulrich, Marion . . . . .	Ben Avon

## VOICE

Armstrong, Margaret . . . . .	Pittsburgh
Burkhart, Alpo . . . . .	Pittsburgh
Burkhart, Phyllis . . . . .	Pittsburgh
Charters, Margaret . . . . .	Pittsburgh
Craig, Helen . . . . .	Pittsburgh
Dorman, Helen . . . . .	Pittsburgh
Dutson, May L. . . . .	Pittsburgh
Emblem, Mrs. George . . . . .	Pittsburgh
Farr, Florence . . . . .	Avalon



Ford, Jane Long . . . . .	Jeannette
Forster, Nancie . . . . .	Sheridan
Frazier, Anna Louise . . . . .	Monessen
Glukoff, Ida Edith . . . . .	Pittsburgh
Goeddel, Gertrude Elizabeth . . . . .	Pittsburgh
Jackson, Helen . . . . .	Pittsburgh
Jennings, Mrs. O. E. . . . .	Pittsburgh
Kinnear, Esther . . . . .	Pittsburgh
Krebs, Margaret . . . . .	Pittsburgh
Loftis, Irene . . . . .	Youngstown, O.
Messner, Miriam B. . . . .	Warren
Milner, Ruth Emma . . . . .	Fairmont, W. Va.
Morland, Eva . . . . .	Beaver
Moss, Vera . . . . .	Pittsburgh
Patterson, Wilda Van U. . . . .	Cleveland, O.
Robb, Kathryn . . . . .	Wilkinsburg
Robb, Mary Amelia . . . . .	McDonald
Robison, Edith . . . . .	Pittsburgh
Rosenbloom, Esther . . . . .	Pittsburgh
Shane, Mabel W. . . . .	McDonald
Sims, Helen H. . . . .	Pittsburgh
Stevens, Gertrude . . . . .	Pittsburgh
Stevenson, Euphemia . . . . .	Pittsburgh
Stevenson, Mrs. W. T. . . . .	Pittsburgh
Succop, Florence . . . . .	Pittsburgh
Thompson, Annabel . . . . .	Pittsburgh
Trimble, Nellie Irene . . . . .	Jeannette
Turner, Dorothy . . . . .	Freeport
West, Lillian . . . . .	Pittsburgh
West, Nellie . . . . .	Pittsburgh
Williams, Ethel M. . . . .	Glassport

## HARMONY AND COMPOSITION

Bamford, Martha Gordon . . . . .	Midway
Burkart, Phyllis . . . . .	Pittsburgh

Coeper, Mildred . . . . .	Unity
Crytzer, Mona Lois . . . . .	New Kensington
Dorman, Agnes Letitia . . . . .	Pittsburgh
Dunbar, Martha Belle . . . . .	Pittsburgh
Dutson, May . . . . .	Pittsburgh
Eberhart, Constance . . . . .	Pittsburgh
Elk, Helen . . . . .	Pittsburgh
Errett, Jane Elizabeth . . . . .	Carnegie
Evans, Edna May . . . . .	Jeannette
Ford, Jane Long . . . . .	Jeannette
Frazier, Louise . . . . .	Monessen
Goeddel, Gertrude Elizabeth . . . . .	Pittsburgh
Goiden, Helen Katherine . . . . .	Pittsburgh
Homer, Susie . . . . .	Pittsburgh
Horner, Mary . . . . .	Pittsburgh
Horrocks, Alice . . . . .	Millvale
Hudson, Sarah . . . . .	Pittsburgh
Keil, Alma Luella . . . . .	Sharpsburg
Latham, Margaret . . . . .	Pittsburgh
Litchfield, Ethel . . . . .	Pittsburgh
Litchfield, Mrs. Lawrence . . . . .	Pittsburgh
Loftis, Irene J. . . . .	Youngstown, O.
McCaw, Pauline . . . . .	Dennison, O.
McCurdy, Elizabeth . . . . .	Pittsburgh
McWilliams, Mildred Margaret . . . . .	Pittsburgh
Martin, Melba R. . . . .	Pittsburgh
Mayhey, Jeanne Cyrene . . . . .	Pittsburgh
Miller, Ruth Emma . . . . .	Fairmont, W. Va.
Robinson, Mabel I. . . . .	Pittsburgh
Schlegel, Helen . . . . .	Crafton
Steele, Helen Elizabeth . . . . .	Pittsburgh
Trimble, Nellie Irene . . . . .	Jeannette
Weston, Anna Mildred . . . . .	Galletzin
Williams, Ethel M. . . . .	Glassport

## HISTORY OF MUSIC

Bamford, Martha Gordon . . . . .	Midway
Burkart, Phyllis . . . . .	Pittsburgh
Cooper, Mildred . . . . .	Unity
Elk, Helen . . . . .	Pittsburgh
Ford, Jane Long . . . . .	Jeannette
Goeddel, Gertrude Elizabeth . . . . .	Pittsburgh
Golder, Helen Katherine . . . . .	Pittsburgh
Messner, Miriam B. . . . .	Warren
Miller, Ruth Emma . . . . .	Fairmont, W. Va.
Robinson, Mabel I. . . . .	Pittsburgh
Trimble, Nellie Irene . . . . .	Jeannette

## NORMAL

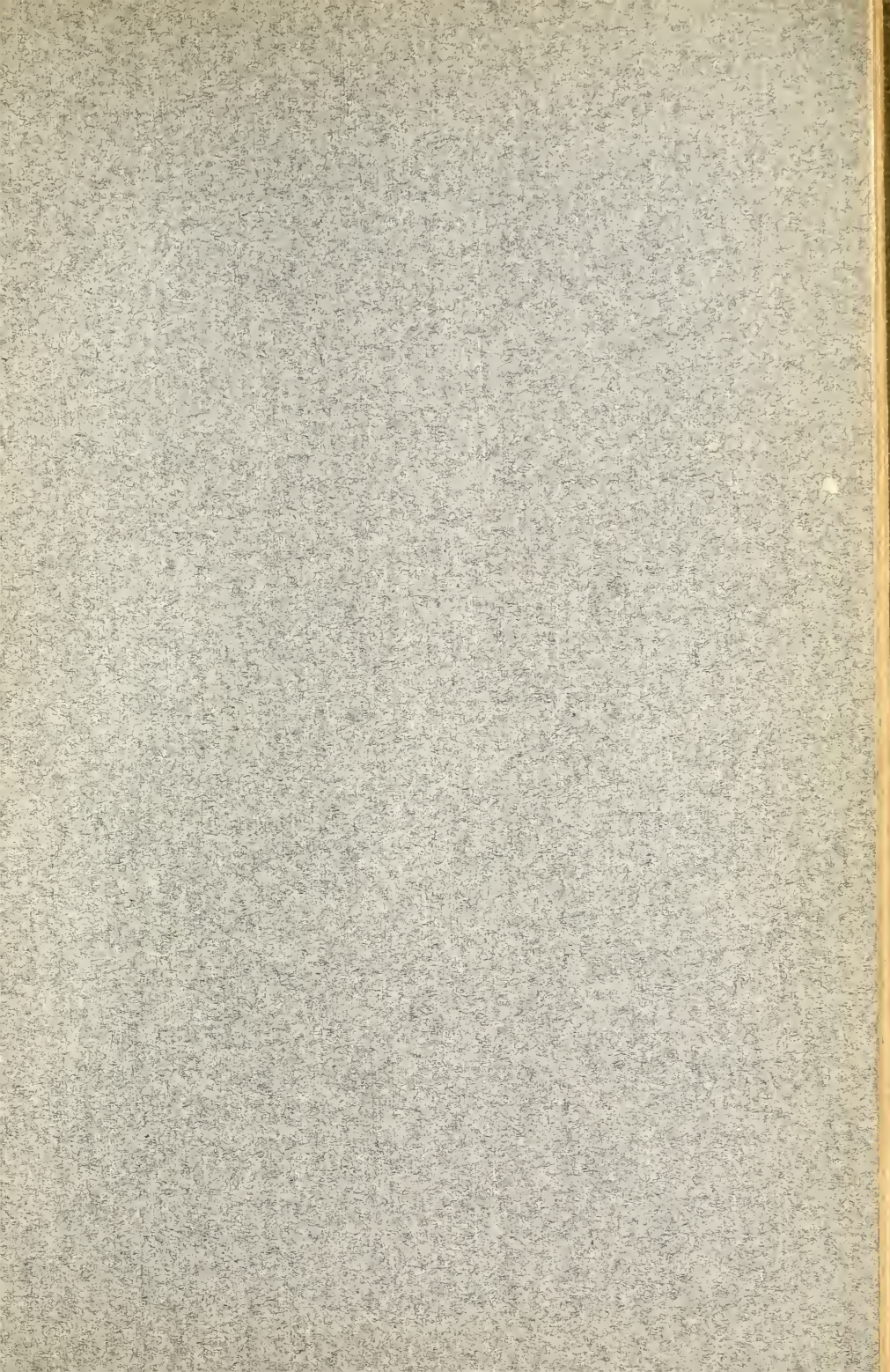
Bamford, Martha Gordon . . . . .	Midway
Trimble, Nellie Irene . . . . .	Jeannette

## ORGAN

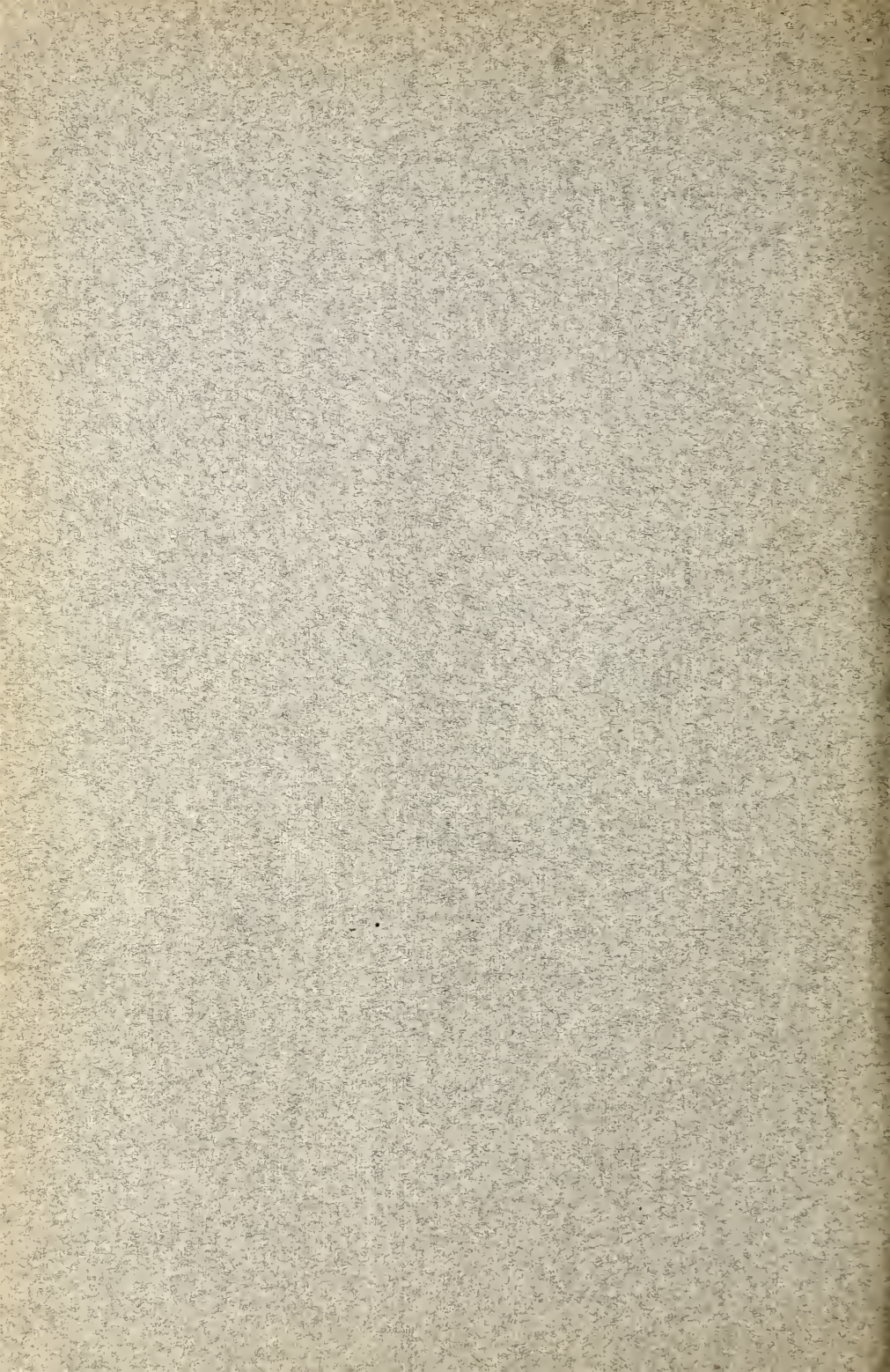
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McCaw, Pauline . . . . .	Dennison, O.
Reed, Mrs. Frank . . . . .	Pittsburgh
Stuckslager, Helen . . . . .	Braddock











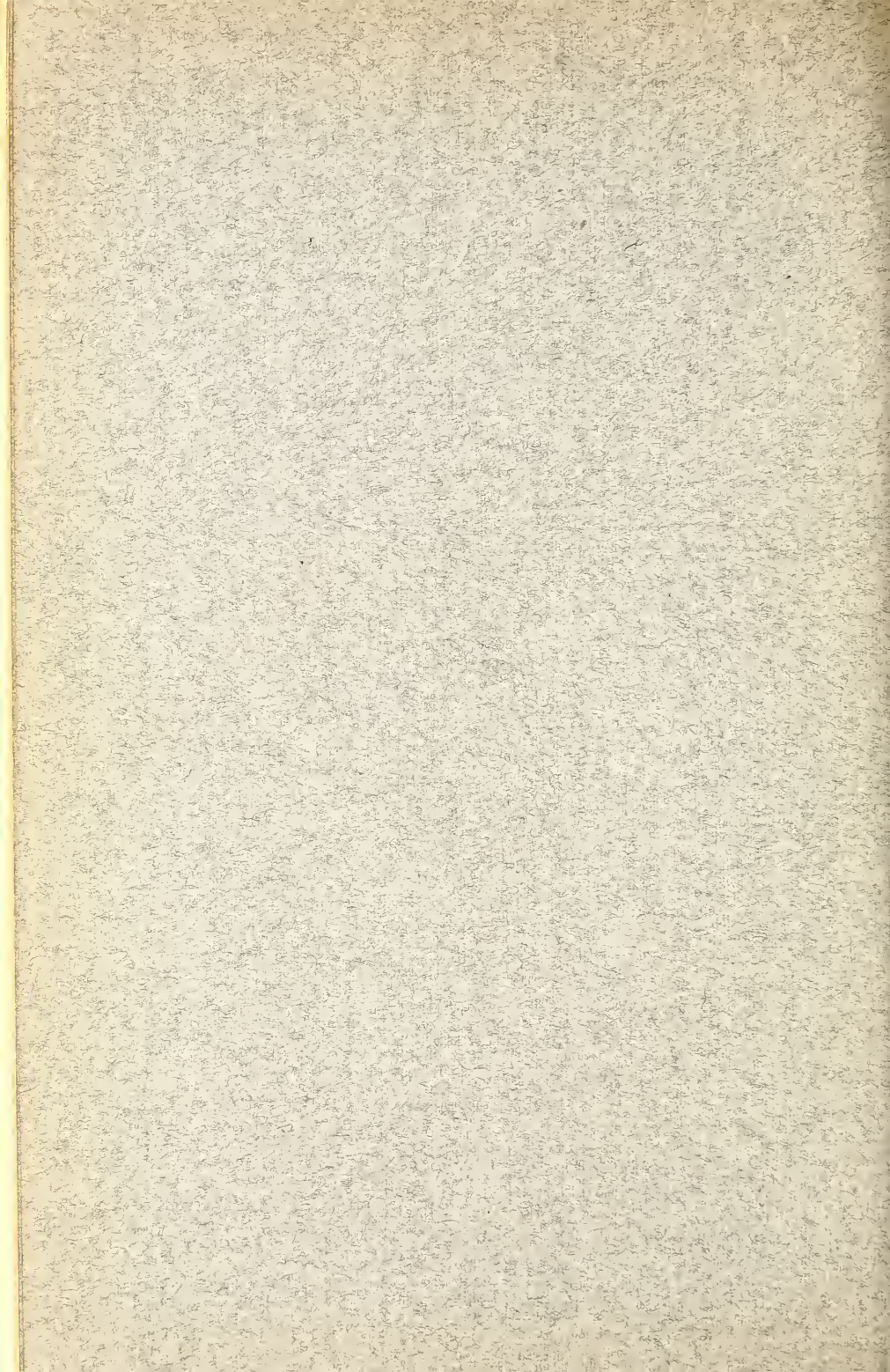


**1915 - 1916**

# **Pennsylvania College for Women**

**Pittsburgh**





**1915 - 1916**

**Pennsylvania College for Women**

**Pittsburgh**



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1915																																
September								October								November								December								
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January							February							March							April						
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7	8	9	10	11	12	13	4	5	6	7	8	9	10	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	11	12	13	14	15	16	17	15	16	17	18	19	20	21
21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30	31	..	..	..	25	26	27	28	..	..	..	25	26	27	28	29	30	31	29	30	..	..	..	..	..
May							June							July							August						
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## CALENDAR

### 1915

14 September, Tuesday	-	-	-	Entrance Examinations
14 September, Tuesday	-			First Semester begins—enrollment
15 September, Wednesday	-	-	-	Recitations begin
25 November, Thursday	-	-	-	Thanksgiving Day
17 December, Friday	-	-		Christmas Vacation begins

### 1916

3 January, Monday, 6 P. M.	-	-	-	College opens
24 January, Monday	-	-		Mid-year Examinations begin
31 January, Monday	-	-	-	Second Semester begins
24 March, Friday	-	-	-	Spring Vacation begins
3 April, Monday, 6 P. M.	-	-	-	College opens
13 May, Saturday	-	-	-	May Day Fête
5 June, Monday	-	-	-	Final Examinations begin
9 June, Friday, 3 P. M.	-	-	-	Alumnae Meeting
10 June, Saturday, 8:15 P. M.	-	-	-	Class Day
11 June, Sunday, 11 A. M.	-	-	-	Baccalaureate Sermon
Third Presbyterian Church				
12 June, Monday, 8:15 P. M.				

#### Commencement and President's Reception

12 September, Tuesday	-	-	-	Entrance Examinations
12 September, Tuesday	-			First Semester begins—enrollment
13 September, Wednesday	-	-	-	Recitations begin
23 November, Thursday	-	-	-	Thanksgiving Day
15 December, Friday	-	-	-	Christmas Vacation begins

### 1917

2 January, Tuesday, 8:30 A. M.	-	-	-	College opens
22 January, Monday	-	-		Mid-year Examinations begin
29 January, Monday	-	-	-	Second Semester begins
23 March, Friday	-	-	-	Spring Vacation begins
1 April, Monday, 6 P. M.	-	-	-	College opens
11 May, Saturday	-	-	-	May Day Fête
10 June, Monday, 8 P. M.	-	-	-	Commencement

## BOARD OF TRUSTEES

### Term Expires in 1915

JACOB J. MILLER  
JOHN B. FINLEY  
W. W. BLACKBURN

WILLIAM N. FREW  
JAMES C. GRAY  
MRS. WILLIAM S. MILLER

### Term Expires in 1916

JOHN C. ACHÉSON, LL.D.      OLIVER MCCLINTOCK  
REV. JOHN K. MCCLURKIN, D.D.      DAVID MCK. LLOYD  
   MRS. JOHN I. NEVIN

### Term Expires in 1917

REV. WILLIAM L. MCEWAN, D.D.      MRS. CHARLES H. SPENCER  
WILLIAM H. REA      D. M. CLEMON  
   LEE S. SMITH

## OFFICERS OF THE BOARD

OLIVER MCCLINTOCK	. . . . .	President
JOHN B. FINLEY	. . . . .	Vice-President
WILLIAM H. REA	. . . . .	Secretary
DAVID MCK. LLOYD	. . . . .	Treasurer



## ORGANIZATION OF THE BOARD OF TRUSTEES

### Executive Committee

WILLIAM H. REA      JOHN B. FINLEY      W. W. BLACKBURN  
JOHN C. ACHESON, LL.D.

### Finance Committee

JOHN B. FINLEY      DAVID MCK. LLOYD      HON. JACOB J. MILLER  
LEE S. SMITH      W. W. BLACKBURN

### Committee on Faculty and Studies

REV. JOHN K. MCCLURKIN, D.D.      MRS. CHARLES H. SPENCER  
MRS. WILLIAM S. MILLER      REV. WILLIAM L. MCEWAN, D.D.  
JOHN C. ACHESON, LL.D.

### Committee on House Visitation

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LEE S. SMITH      JOHN B. FINLEY  
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## FACULTY AND OFFICERS 1914-15

\*JOHN C. ACHESON, LL.D., PRESIDENT

†CORA HELEN COOLIDGE, B.L., DEAN  
Education

EDITH G. ELY, B.A.  
Assistant to the Dean, French

MARY W. BROWNSON, M.A.  
History and Biblical Literature

GEORGE W. PUTNAM, M.A.  
English

VANDA E. KERST  
Expression

LUELLA P. MELOY, M.A.  
Sociology and Economics

T. CARL WHITMER, Director of Music  
Piano, Organ, and Composition

ALICE DACRE BUTTERFIELD, M.A.  
Chemistry and Biology

MARY DRENNAN LINDSAY, M.A.  
English

VIOLET LOUISE HOLCOMB, M.A.  
Philosophy and Physics

CHARLES E. MAYHEW  
Singing

\*Assumed office January 1, 1915

†Acting-President, Feb. 6, 1914 to Jan. 1, 1915

## **FACULTY AND OFFICERS**

ELIZABETH B. WHITE, B.A.

History

HELEN F. RANDOLPH

German and Italian

EDA B. NICHOL, M.A.

Greek and Latin

HELEN ABBOTT

Physical Training

ROSE EMMA McGREW

Expression

LETITIA BENNETT, B.L.

Mathematics

JOSEPHINE P. DE VALLAY

French

MAE B. MACKENZIE

Piano

LAURA CAROLINE GREEN, M.A.

Latin and Greek

HARRIET SAFFORD DUTCHER

English

In order of appointment

## **EXECUTIVE OFFICERS**

EMMA MELLOU CAMPBELL, M.A.

Librarian

MARGARET ANN STUART

Secretary to the President

MRS. SARAH L. DRAIS

House Director

MABEL N. LLEWELYN

Assistant to the Secretary

MRS. ELIZABETH A. ROWE

House Director for Woodland Hall

## **FACULTY ORGANIZATION**

President  
DR. ACHESON

Dean  
MISS COOLIDGE

Secretary  
MR. PUTNAM

### **COMMITTEES:**

1. CABINET, Chairman, Dr. Acheson.
2. CURRICULUM, Chairman, Miss Ely.
3. CLASSIFICATION, Chairman, Miss Brownson.
4. SCHOLARSHIP, Chairman, Miss Holcomb.
5. DOCUMENTS, Chairman, Miss White.
6. LIBRARY, Chairman, Miss Campbell.
7. PUBLIC OCCASIONS, Chairman, Miss Coolidge.
8. DORMITORY LIFE, Chairman, Miss Coolidge.

## GENERAL INFORMATION

### HISTORICAL STATEMENT

PENNSYLVANIA COLLEGE FOR WOMEN was founded to supply the need in Western Pennsylvania of an institution of higher learning, organized and maintained under distinctively Christian influences. The East End of Pittsburgh was chosen as the location best suited for such a centre of liberal education, and a campus of about eleven acres was secured upon a hill crest in immediate proximity to Fifth Avenue, and between the rapidly growing residence districts of East Liberty and Shady-side. The fine, old family residence already standing upon the property was remodeled and enlarged to meet the requirements of the new school, and at a later time received the name Berry Hall, in memory of its former owner. The founding of the College was made possible by the generous gifts and active coöperation of many interested friends; and its charter, granted in December, 1869, authorized the conferring of degrees such as are "usually granted and conferred in other colleges of the United States of America," to students who should complete the offered courses of instruction in the liberal arts and sciences. The first class to be graduated comprised six students, who received their degrees in 1873.

Dilworth Hall, the second of the college buildings in order of erection, was named for Mr. Joseph Dilworth, the largest contributor toward its cost and a staunch friend and supporter of the institution. This structure was completed and dedicated in 1888. The Gymnasium was built in 1892 and connected with a Music Hall in 1897. Woodland Hall was opened as a College House in September, 1909.

## LOCATION

The College is situated in the East End of Pittsburgh, in the midst of the best residence section of the city. The campus is a finely shaded tract of land embracing a hill slope and its crest on which the buildings stand. The campus owned by the College is part of a tract of land many times as large, containing the homes of a few families of wealth. Inasmuch as the entrance to this tract is by a private road, the College is practically located in a large, private park, thus securing an abundance of space and air, a wide view and fine opportunities for outdoor games, combined with a delightful and wholesome seclusion not easy to command in a great city.

Not least among the benefits conferred upon the College by its position in the heart of Pittsburgh is its nearness to the Carnegie Institute. Here are found a splendid library, containing 250,000 volumes; a museum, rich in material for the study of zoölogy, paleontology and ethnography; an art gallery, which maintains a valuable permanent collection of paintings, and exhibits each year work of the best living artists in Europe and America; halls of architecture and sculpture, which make possible at home the acquirement of an intellectual training obtainable under ordinary circumstances only by means of extensive travel in foreign lands.

Hamilton Ave. and Fifth and South Highland, Wjlkinsburg and Fifth Avenue electric cars running out Fifth Avenue from the downtown district will carry passengers very near the campus entrances on Murray Hill Avenue and on Woodland Road; and cabs may be taken at the railway stations which will convey travelers to the College. Baggage entering the city by the Pennsylvania lines should be checked to the East Liberty Station.

## BUILDINGS

one to another. They are so disposed as to receive the sunshine

The main buildings of the College are so connected that on all sides in the course of the day. All the buildings are heated practically no exposure to the weather is involved in passing from by steam and lighted with gas.

BERRY HALL is four stories in height. On its lower floors are the library, drawing rooms, class rooms, and the offices of the President and the Dean. On its upper floors are living rooms for faculty members and resident students.

MUSIC HALL has a spacious gymnasium on the first floor, and on the second, music studios and practise rooms.

DILWORTH HALL is devoted to academic uses. In it are the Assembly Hall, lecture rooms and laboratories.

WOODLAND HALL, the new residence house, was opened in the autumn of 1909. It is a four-story building containing a large reception hall, parlors, dining and service rooms, an infirmary and living accommodations for sixty students. It is constructed after the most approved plans for college dormitories and has been found a commodious and very attractive home.

## LIBRARIES

THE COLLEGE LIBRARY, housed in Berry Hall, contains thirty-five hundred volumes. Students have access to its shelves from 8:15 A. M. to 9:30 P. M., daily. The collection is classified according to the Dewey system, and is provided with a card catalogue. A thorough reorganization has augmented the working value of the books already on the shelves; and the departmental collections are enlarged from time to time by gifts from the Alumnæ and friends, or by the appropriation of funds. A Library Endowment Fund was started in 1909 by Mrs. Agnes Pitcairn Decker, an Alumna of the College, as a memorial to Mrs. Florence I. Holmes Davis, of the Class of 1875; and as this fund increases, its interest will become available for the purchase of important books.

THE CARNEGIE LIBRARY OF PITTSBURGH. The facilities of this immense library are at the disposal of the Pennsylvania College for Women, for not only is it near enough for personal consultation, but through the courtesy of the authorities of the Carnegie Library a loan department has been established at the College for students. This permits the use upon an extensive scale of outside reading in connection with all branches of assigned work.



## **READING ROOM**

Adjacent to the College Library is a well-lighted and attractive reading room, supplied with daily and weekly newspapers, standard monthly magazines, quarterly reviews and departmental journals.

## **LABORATORIES AND MUSEUMS**

The Science Department is located on the third floor of Dilworth Hall and is provided with lecture rooms and with physical, chemical and biological laboratories, supplied with all modern apparatus necessary for the pursuit of the courses offered. The physics laboratory is provided with apparatus for undergraduate work in mechanics, sound, heat, light, electricity and magnetism. The chemical laboratory is equipped with accurate chemical balances, boiling and freezing point apparatus and other facilities for careful quantitative work. Connected with the chemical laboratory is a stock room situated in the basement of Dilworth Hall from which duty free apparatus is loaned to students for use in the laboratory. This apparatus remains the property of the College and may be returned at any time; but if broken or used up the student is required to replace it. While no attempt is made to maintain a museum, students have access to a very good collection of minerals, specimens of the rarer elements and their compounds, and representatives of the less readily prepared organic substances. Collections of mounted skeletons illustrating the comparative osteology of typical vertebrates, of preserved and mounted zoölogical forms, and of charts and microscopical mounts supplement the laboratory equipment in Biology.

In addition to the College equipment students have access to the abundant facilities of Carnegie Museum, among which are a valuable herbarium, paleontological specimens and a collection of 38,000 birds, besides the large Science Library.

## **HEALTH AND PHYSICAL TRAINING**

The health of students is made a chief object of attention. A physical examination is required of each student upon entrance

and during the year at the discretion of the Director of the Physical Training Department. A trained nurse lives in the College and has charge of all cases of illness except a protracted or serious case demanding a private nurse. This nurse watches also to prevent small illnesses on the part of students as far as possible. Parents may be assured that their daughters who live at the College will receive careful and sympathetic personal attention. The infirmary in the dormitory is well equipped for the care and comfort of the sick.

The Department of Physical Training, with a well-equipped gymnasium, in its required and elective courses offers to students of the College opportunities for intelligent exercise and the aesthetic development of the body. All resident students are expected to take daily outdoor exercise.

The regulation suit consists of black bloomers, white jumpers, and gymnasium shoes. This suit may be ordered through the Director at a cost of about seven dollars. The dancing skirt and slippers used in aesthetic dancing may be procured through the Director..

The College Athletic Association controls all athletics, including tennis, field hockey, basket ball and swimming. Satisfactory arrangements for swimming have been made at the Oakland Natatorium not far from the College.

## MUSIC

The College recognizes the place of music in higher education and in its School of Music provides ample facilities for those who wish to pursue this study in connection with other college work. Twelve hours of music may receive academic credit, eight of which must be in theoretical courses. Attention is called to the announcement of the School of Music on pages 79-92 of this catalogue.

Courses in the history and theory of music are counted toward the baccalaureate degree. Practice courses may be counted if combined with a proper amount of history and theory.

## SECRETARIAL COURSE

Statistics from Vocational Bureaus show that next to the profession of teaching, college graduates are desiring to take up the work of private secretary. The four qualities demanded are: first, character, second, personality, third, general education and fourth, technical training. The college has arranged to give an opportunity for this technical training to Juniors and Seniors, who have decided to take up secretarial work. This work will not receive college credit, but there will be given at the college in the summer vacation an opportunity for students who are ambitious and earnest, to receive the proper instruction.

Information may be obtained from the President or Dean.

## ART

A well known local artist, Miss Anna Craig, has a studio in the main building and students desiring work in illustrating, painting, sketching and design can make arrangements with Miss Craig at moderate prices.

## ROUTINE OF ADMISSION

Registration blanks are provided by the College for the use of applicants for admission and will be forwarded upon request. These blanks, properly filled and signed, should be in the hands of the college authorities by September 10th. A registration fee of five dollars will be charged for holding a room for a resident student. This will be credited on the first payment, or refunded if notification of withdrawal is sent before August 25th.

All applicants for admission must present satisfactory testimonial of good moral character. Those who come from other colleges must bring certificates of honorable dismissal.

## METHODS OF ADMISSION TO THE

### FRESHMAN CLASS

Admission is by one of the following methods:

a. EXAMINATION. Applicants for admission may be examined at the College either during the week preceding Commencement or at the opening of the College year.

Certificates of the College Entrance Examination Board are accepted in lieu of the entrance examinations at the College.

*b.* **CERTIFICATE FROM ACCREDITED SCHOOLS.** Instead of examination, certificates from High Schools and Academies whose work has been approved by the College and whose courses prepare for the Freshman class will be accepted. Blank forms of such certificates will be furnished instructors on application to the President or Dean, with whom they are invited to correspond. Applicants for admission are requested to present their certificates, or send them by mail to the President or Dean during the week preceding Commencement, or as soon thereafter as practicable. When the requirements given below have not been met exactly, equivalents, stated in detail, must be offered. Students received on certificate are regarded as on probation during the first semester.

## **REQUIREMENTS FOR ADMISSION TO THE**

### **FRESHMAN CLASS**

Fifteen units are required for admission to the freshman class. Of these fifteen units, three must be in English, three in mathematics, one in history, four in Latin and two in some language other than English or Latin. The remaining two units are elective.

A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work.

## **EXPLANATION OF REQUIREMENTS FOR ADMISSION**

### **ENGLISH**

Three units.

Preparation should include the following subjects:

*a.* **COMPOSITION.** Students should be familiar with the essentials of English grammar, should know the fundamental principles of rhetoric, and should be able to apply them in the construction of effective sentences and paragraphs and in the organization of written work. No student will be accepted whose

paper is notably deficient in logical development of the subject matter, or in such details of form as spelling, punctuation, grammar and division into paragraphs.

b. LITERATURE. The books recommended are those listed in the Uniform College Entrance requirements in English, but other similar books will be accepted as equivalents. Candidates will be required to write one or more paragraphs on each of several subjects, chosen from a considerably larger number, given in the examination paper. The questions on all the books assume a knowledge of subject-matter and structure, some acquaintance with the lives of the authors and with the period in which they lived, but those on books prescribed for study and practice call for more detailed treatment than those on books prescribed for reading and practice.

(1.) Books prescribed for reading and practice for students entering in 1915-1919 are:

Group I. (Two to be selected). *The Old Testament*, including the most important narrative parts of *Genesis*, *Exodus*, *Joshua*, *Judges*, *Samuel*, *Kings*, and *Daniel*, together with the books of *Ruth* and *Esther*; the *Odyssey*, with the omission of Books I-V, XV-XVII; the *Iliad*, with the omission of the Books XI, XIII-XV, XXI; Virgil's *Aeneid*. English translations of the *Odyssey*, the *Iliad*, and the *Aeneid*, of acknowledged literary merits, must be used.

Additional units from Groups II-V may be substituted for the two units of this group.

#### GROUP II—SHAKESPEARE

<i>Midsummer Night's Dream</i> ,	<i>Richard II</i> ,	} If not chosen for study under E.
<i>Merchant of Venice</i> ,	<i>Richard III</i> ,	
<i>As You Like It</i> ,	<i>Henry V</i> ,	
<i>Twelfth Night</i> ,	<i>Coriolanus</i> ,	
<i>The Tempest</i> ,	<i>Julius Caesar</i> ,	
<i>Romeo and Juliet</i> ,	<i>Macbeth</i> ,	
<i>King John</i> ,	<i>Hamlet</i> .	

GROUP III—PROSE FICTION

- Malory: *Morte d' Arthur* (about 100 pages).  
Bunyan: *Pilgrim's Progress*, Part I.  
Swift: *Gulliver's Travels* (voyages to Lilliput and to Brobdingnag).  
Defoe: *Robinson Crusoe*, Part I.  
Goldsmith: *Vicar of Wakefield*.  
Frances Burney: *Evelina*.  
Scott's Novels: any one.  
Jane Austen's Novels: any one.  
Maria Edgeworth: *Castle Rackrent*, or *The Absentee*.  
Dickens' Novels: any one.  
Thackeray's Novels: any one.  
George Eliot's Novels: any one.  
Mrs. Gaskell: *Cranford*.  
Kingsley: *Westward Ho!* or *Hereward, the Wake*.  
Reade: *The Cloister and the Hearth*.  
Blackmore: *Lorna Doone*.  
Hughes: *Tom Brown's Schooldays*.  
Stevenson's *Treasure Island*, or *Kidnapped*, or *Master of Ballantrae*.  
Cooper's Novels: any one.  
Poe: *Selected Tales*.  
Hawthorne: *The House of the Seven Gables*, or *Twice Told Tales*,  
or *Mosses from an Old Mause*.  
A collection of *Short Stories* by various standard writers.

GROUP IV—ESSAYS, BIOGRAPHY, ETC.

- Addison and Steele: *The Sir Roger de Coverley Papers*, or  
Selections from the *Tatler* and *Spectator* (about 200 pages).  
Boswell: Selections from the *Life of Johnson* (about 200 pages).  
Franklin: *Autobiography*.  
Irving: Selections from the *Sketch Book* (about 200 pages), or  
*Life of Goldsmith*.  
Southey: *Life of Nelson*.  
Lamb: Selections from the *Essays of Elia* (about 100 pages).  
Lockhart. Selections from the *Life of Scott* (200 pages).  
Thackeray: *Lectures on Swift, Addison and Steele in the English  
Humorists*.  
Macaulay: Any one: *Lord Clive*, *Warren Hastings*, *Milton*, *Addison*,  
*Goldsmith*, *Frederic the Great*, *Madame d' Arblay*.  
Trevelyan: Selections from the *Life of Macaulay* (200 pages).



- Ruskin: *Sesame and Lilies*, or Selections (150 pages).  
 Dana: *Two Years Before the Mast*.  
 Lincoln: Selections, including the two *Inaugural Speeches* in Independence Hall and at Gettysburg, the *Last Public Address*, *The Letter to Horace Greeley*, together with a brief memoir of Lincoln.  
 Parkman: *The Oregon Trail*.  
 Lowell: *Selected Essays* (150 pages).  
 Holmes: *Autocrat of the Breakfast Table*.  
 Stevenson: *An Inland Voyage and Travels with a Donkey*.  
 Huxley: Autobiography and Selections from *Lay Sermons*, including the addresses on *Improving Natural Knowledge*, *A Liberal Education*, and *a Piece of Chalk*.  
 A Collection of *Essays* by Bacon, Lamb, de Quincey, Hazlett, Emerson and later writers. A collection of *Letters* by various standard writers.

#### GROUP V—POETRY

- Palgrave's *Golden Treasury* (First Series).  
 Books II and III. with special attention to Dryden, Collins, Gray, Cooper and Burns.  
 Palgrave's *Golden Treasury*, (First Series). Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen under B).  
 Goldsmith: *The Traveller* and *The Deserted Village*.  
 Pope: *The Rape of the Lock*.  
 A collection of English and Scottish *Ballads*, as, for example, some *Robin Hood* ballads, the *Battle of Otterburn*, *King Estmere*, *Young Beicham*, *Berwick and Grahame*, *Sir Patrick Spens*, and later ballads.  
 Coleridge: *The Ancient Mariner*, *Christabel*, and *Kubla Khan*.  
 Byron: *Childe Harold*, Canto III and IV, and the *Prisoner of Chillon*.  
 Scott: *The Lady of the Lake*, or *Marmion*.  
 Macaulay: *The Lays of Ancient Rome*, *The Battle of Naseby*, *The Armada*, *Ivry*.  
 Tennyson: *The Princess*, or *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*.  
 Browning: *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French*



*Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, The Pied Piper, "De Gustibus"—, Instans Tyrannus.*  
Arnold: *Sohrab and Rustum, and The Forsaken Merman.*  
Selections from *American Poetry*, with special attention to Poe, Lowell, Longfellow, and Whittier.

#### B. STUDY AND PRACTICE

This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. The books provided for study are arranged in four groups, from each of which one selection is to be made.

##### GROUP I—DRAMA

Shakespeare: *Julius Caesar, or Macbeth, or Hamlet.*

##### GROUP II—POETRY

Milton: *L'Allegro, Il Penseroso*, and either *Comus* or *Lycidas*.  
Tennyson: *The Coming of Arthur, The Holy Grail, and The Passing of Arthur.*

The selections from Wordsworth, Keats, and Shelley in *Book IV* of Palgrave's *Golden Treasury (First Series)*.

##### GROUP III—ORATORY

Burke: *Speech on Conciliation with America.*  
Macaulay's *Two Speeches on Copyright*, and Lincoln's *Speech at Cooper Union.*  
Washington's *Farewell Address* and Webster's *First Bunker Hill Oration.*

##### GROUP IV—ESSAYS

Carlyle: *Essay on Burns*, with a selection from Burns's *Poems*.  
Macaulay: *Life of Johnson.*  
Emerson: *Essay on Manners.*

## MATHEMATICS

Three units.

*a.* ALGEBRA THROUGH QUADRATICS. The four fundamental operations for rational algebraic expressions, Factoring, determination of highest common factor and lower common multiple by factoring. Fractions, including complex fractions, ratio and proportion. Linear equations, numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

Quadratic equations, both numerical and literal. Simple cases of equations with one or more unknown quantity, that can be solved by the methods of linear or quadratic equations: graphs. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the  $n$ th term and the sum of the terms of arithmetical and geometrical progressions, with application.

*b.* PLANE GEOMETRY. The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circles and the measurements of angles; similar polygons; areas; regular polygons and the measurements of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces.

## HISTORY

One unit each.

*a.* ANCIENT HISTORY. With special reference to Greek and Roman History, but including also a short introductory study of the Ancient East and extending to 800 A. D.

*b.* MEDIAEVAL AND MODERN HISTORY. European history, from the death of Charlemagne to the present time.

*c.* ENGLISH HISTORY. With due reference to social development and the growth of political institutions.

*d.* AMERICAN HISTORY AND CIVIL GOVERNMENT.

## LATIN

One unit each.

a. GRAMMAR AND ELEMENTARY PROSE COMPOSITION. A thorough knowledge of all regular inflections, all common irregular forms, the fundamentals of syntax, and a select vocabulary.

b. CAESAR. *Gallic War*, Book I-IV, or the equivalent from other books of the *Gallic War* or the *Civil War*, or *Nepos*, *Lives*. The examination consists of translation at sight of narrative prose similar to the above.

c. CICERO. The four orations against Catiline and the orations from Archias and for the Manilian Law, or the equivalent from other orations of Cicero or from his letters, or from Sallust Catiline and Jugurtha, except that the orations for the Manilian Law and for Archias are required. The examination consists of translation (together with historical, literary and grammatical questions) of passages taken from the two required orations and of sight translation of passages similar to the above in vocabulary, syntax and range of ideas. The applicant will also be examined in advanced prose composition.

d. VIRGIL. *Aeneid*, Books I-VI, or the equivalent from other books of the *Aeneid*, or from the *Bucolics* or *Georgics*, or from Ovid, *Metamorphoses*, *Fastii*, or *Tristia*, except that *Aeneid* I, II and either IV or VI are required. The examination consists of translation (together with questions on grammar, prosody, literary and historical allusions, and subject-matter) of passages taken from the required books, and of sight translation of passages similar to the above in vocabulary, syntax, and range of ideas.

## GREEK

One unit each.

a. GRAMMAR AND COMPOSITION. The topic for examination are similar to those under Latin Grammar and Composition.

b. XENOPHON. *Anabasis*, Books I-IV. The examination will include translation at sight.

c. HOMER. *Iliad*, Books I-III (omitting II, 494-end). The examination will include translation at sight.

## GERMAN

One unit each.

a. (1.) A knowledge of elementary grammar, including forms and the simpler rules of syntax and word order.

(2.) Reading and translation of not less than 100 pages of easy modern German prose.

(3.) Ability to read German aloud intelligently and with correct pronunciation and to answer simple questions in German based upon the texts read.

b. (1.) Further study of the grammar, particularly of the syntax, uses of modal auxiliaries, subjunctive and infinitive moods.

(2.) Reading and translation of not less than 200 pages of modern stories and plays with a few poems, in addition to the amount already indicated.

(3.) Ability to translate easy English prose into German. This ability may be acquired by constant practice in oral and written reproductions of the contents of the texts read, and by easy exercises in German prose composition.

(4.) Practice in dictation, conversation, memorizing of selected passages.

c. (1.) Further study along the lines already indicated.

(2.) A thorough review of the grammar, accompanied by the use of a good text book in German prose composition.

(3.) Reading and translation of from 300 to 400 pages of more difficult German. It is recommended that half of this amount be selected from simpler works of the classical period.

(4.) Ability to follow a recitation conducted in German, to answer questions based upon the texts and to give oral and written reproductions of passages read and discussed in the class.

## FRENCH

One unit each.

a. (1.) A knowledge of the fundamental principles of grammar is required. Inflection of nouns, adjectives, the use of all pronouns, conjugation of regular verbs and the common irregular verbs and the elementary rules of word order.

(2.) Reading and translation of not less than 100 pages of easy modern French.

(3.) Ability to read French aloud intelligently with correct pronunciation and to answer simple questions in French based upon the text read.

b. (1.) Further study of grammar, particularly of syntax. Common idiomatic phrases, uses of modal auxiliaries, subjunctive and infinitive moods.

(2.) Reading and translation of not less than 200 pages of modern stories and plays, with a few poems in addition to the amount already indicated.

(3.) Ability to translate easy English prose into idiomatic French. This ability may be acquired by constant practice in oral and written reproduction of the contents of the texts read, and by easy exercises in French composition. Practice in dictation, conversation, memorizing of selected passages.

c. (1.) Further study along the lines already indicated. A thorough review of the grammar accompanied by the use of a good text book in French prose composition.

(2.) Reading and translation of from 300 to 400 pages of more difficult French, half of which should be selected from the simpler classics.

(3.) Ability to follow a recitation conducted in French, to answer questions based upon the texts and to give oral and written reproductions of passages read and discussed in class.

## CHEMISTRY

One, or one-half, unit.

The study of at least one standard text-book, so planned that the student may acquire a connected and comprehensive view of the most important facts and laws of elementary chemistry.

Laboratory work, comprising at least forty exercises similar to those given in Brownlee's or Newell's *Laboratory Manual* or in the College Entrance Board requirement, recorded in a note book, certified by the teacher to be the original work of the student.

One unit. Four recitations and laboratory work each week for a year.

One half unit. The equivalent of one-half the year's work outlined above.

## PHYSICS

One, or one-half, unit.

The course of instruction in Physics should include:

1. The study of a standard text-book, the equivalent of Milliken and Gale's *First Principles in Physics*, for the purpose of obtaining a connected and comprehensive view of the subject.

2. Instruction by lecture table demonstrations of the practical aspects and applications of the fundamental facts and laws of physics.

3. Laboratory work shown in a note book certified by the instructor to be the original work of the student. Completing of at least thirty experiments chosen to give forceful illustration of these facts and laws and to develop accuracy of observation and clearness of thought.

In time, one unit is equivalent to 4 recitations and 2 hours of laboratory work each week, for one year. One-half unit is equivalent to the same number of periods per week for one half year.

## BOTANY

One, or one-half, unit.

The general principles of anatomy and morphology, physiology and ecology. Two-thirds of the time should be devoted to individual laboratory work recorded by description and diagrammatically accurate drawings.

## ADMISSION TO ADVANCED STANDING

Students from other colleges whose entrance requirements are equivalent to those of the Pennsylvania College for Women and which offer equivalent courses of study will be credited with the work they have done in such colleges and admitted to advanced standing without examination. Students who do not come from other colleges, if they desire advanced credit must pass examinations in subjects offered as college work. No student will be accepted to candidacy for the baccalaureate degree after the beginning of the senior year.

## ADMISSION AS SPECIAL STUDENTS

Students may receive instruction without becoming candidates for a degree, provided they can meet the requirements for admission to the freshman class, or have pursued other studies which may be accepted as equivalent to the entrance requirements, or have such training along special lines as will warrant their admission to college classes. The college welcomes, as students, persons of mature age and earnest purpose.

All special students are required to consult with the Dean concerning their courses of study and she will arrange their work in consultation with the heads of the departments. Certificates will be given for completed work of this kind. *Special students are permitted to enter only those classes for which their previous training has fitted them.* In general they are subject to the same requirement as to college regulations, number of hours of work and standing in class as regular students, but each application is considered on its merits.

## REQUIREMENTS FOR GRADUATION

The degree of Bachelor of Arts is given to students who have satisfactorily completed courses amounting in all to sixty hours of college work.



The unit of time used in measuring the value of work is a year hour,—that is, one full hour of class work weekly during the college year. The requirement for each year of the college course is fifteen hours weekly. Students who have maintained a uniformly high grade of scholarship may, by special permission of the faculty, carry extra work, not to exceed two hours per week.

The total requirement for the Bachelor's degree is as follows:

English . . . . .	four hours
Mathematics . . . . .	three hours
History . . . . .	three hours
Science . . . . .	three hours
Philosophy . . . . .	four hours
Biblical Literature . . . . .	four hours
Language (other than English) . . . . .	six hours
Expression . . . . .	one hour
Elective work . . . . .	thirty-two hours

## ELECTIVE WORK

Elective work is distributed as follows: three hours in the freshman year, six hours in the sophomore year, eleven and one-half hours in the junior year and eleven and one-half hours in the senior year.

All elections are subject to the approval of the faculty. At the end of the freshman year each student is required to choose a major department in which she will do at least eight hours of work and an allied minor department in which she will do at least six hours of work. Not more than six hours may be elected in a single department in any one semester. The faculty retains the option of forming classes in any elected courses when fewer than six students apply for registration

## ATTENDANCE UPON CLASS EXERCISES

The grade of work done by a student is necessarily affected by irregularity of attendance upon lectures or recitations. Special examinations may be required if the number of absences for any semester shall exceed the limits of moderation.

Opportunities are offered for attendance upon lectures given in the city which are connected in subject with courses offered by the College. Upon notification by the instructor concerned, students will be expected to attend such lectures, and may have them counted as part of the required work of the courses to which they are allied.

## EXAMINATIONS

General examinations are held in all subjects at mid-year and at the close of the college year. Partial examinations may be given at the discretion of the instructor. Examinations taken for the removal of conditions, or for the securing of credit for private work are scheduled for the opening day of a semester, but may be appointed for other times under special conditions.

Students failing to present themselves for examinations in course may secure private examinations by permission of the Dean and upon payment of a fee of two dollars. If several examinations are to be taken under one permit, a fee of three dollars shall cover the list.

## CONDITIONS

A student whose work in any course is unsatisfactory will be conditioned in this subject at the end of the semester. This condition must be removed by doing an assigned amount of supplementary work within time-limits set by the instructor, and if considered necessary, under the direction of a tutor. If the condition is not removed at the expiration of the time-limit, the work of the course will be considered a failure. Failure in a required course must be made good by the repetition of the course at the time when it is next regularly given.

Entrance conditions are ordinarily to be made good within the first year of college attendance. No student can retain her entrance classification if she continues to carry conditions exceeding five year hours.

## REPORTS

Reports of the scholarship of students are sent out at the end of each semester to parents or guardians. A student may learn her standing in classes by making application to the Dean at the end of the semester.

## GRADUATE WORK

The degree of Master of Arts is conferred upon Bachelors who hold the degree of Arts from this college, or from some other college of equal standing, and who have satisfactorily completed one full year of graduate work under the direction of the faculty. In exceptional cases the work may be done in *absentia*, an examination being required of the candidate as a test of fitness to receive the degree.

Advanced courses appropriate for graduate study leading to the higher degrees are described in the outlines of courses of various departments. Some courses are open to both graduate and undergraduate students; graduates pursuing these courses must maintain a standard of work sufficiently high to satisfy the college authorities that they are entitled to receive graduate credit.

The amount of work required of a candidate for the degree of Master of Arts is equivalent to fifteen hour courses pursued during a period of residence not shorter than one year. Candidates for this degree are required to pass examinations in one major and at least one minor subject, which have been determined upon not later than October 15th of the year in which the examinations will be taken. The major and minor must be in separate departments, but the subjects should be so related as to indicate a definite acquisition in scholarship on the part of the student. A thesis on the major subject, due not later than May 1st, will be required to complete the work for the Master's degree.

A graduate of the Pennsylvania College for Women who has completed one full year of continuous graduate study in an American university of high standing may make application for the degree of Master of Arts and this may be granted upon condition that she comply with the following requirements:

1. She shall present the university registrar's certificate of credit for graduate work completed, and a letter from the chairman of her examining committee of the university certifying that her scholarship and amount of work successfully finished entitle her to the university examination for the Master's degree and that he approves her application for such a degree from the Pennsylvania College for Women.

2. She shall submit a satisfactory thesis based upon her graduate study.

3. She shall present herself for examination for the Master's degree at the discretion of the faculty.

Tuition and laboratory fees paid by graduate students are the same as those paid by undergraduates. The charge for a diploma is ten dollars.

## CURRICULUM SCHEDULE

Freshman Year	Sophomore Year	Junior Year	Senior Year
Bible Course D. 1 hour	Bible Course C. 1 hour	Bible Course B. 1 hour	Bible Course A. 1 hour
English Course D. 2 hours	English Course C. 2 hours	Psychology 1½ hours	Ethics 1½ hours
Mathematics Course D. 3 hours	Science 3 hours	Expression 1 hour	Logic 1 hour
Language 3 hours	Language 3 hours	Elective 11½ hours	Elective 11½ hours
History Course D. 3 hours	Elective 6 hours		
Elective 3 hours			
15 hours	15 hours	15 hours	15 hours

## COURSES OF INSTRUCTION

### BIBLICAL LITERATURE

MISS BROWNSON

D. HISTORICAL STUDY OF THE LIFE OF CHRIST.

*Required of freshmen. 1 hour, through the year.*

C. THE APOSTOLIC AGE. The organization of the Christian Church and the development of its life and literature during the first century.

*Required of sophomores. 1 hour, through the year.*

B. OLD TESTAMENT HISTORY. Studies in the development of the Hebrew people, the growth of political institutions, the influence of other nations, the religious life, the literature.

*Required of juniors. 1 hour, through the year.*

A. OLD TESTAMENT PROPHECY. A study of the development and characteristics of prophecy, the place of the prophets in the life of Israel, the relation of prophecy to history, Messianic prophecy.

*Required of seniors. 1 hour, through the year.*

1. HEBREW POETRY. A study of the poetry of the English Old Testament, especially the Psalms, the Proverbs.

*Elective, open to juniors and seniors. 2 hours, first semester.*

3. HISTORICAL GEOGRAPHY OF PALESTINE. The land in its physical aspects, the place of Syria in history, the interpretation of the Bible by geographical study, detailed survey of the country.

*Elective, open to juniors and seniors. 2 hours, first semester.*

4. BIBLICAL ARCHAEOLOGY. Studies of the results of modern exploration in Biblical lands.

*Elective, open to juniors and seniors. 2 hours, second semester.*

## BIOLOGY

MISS BUTTERFIELD, MISS HOLCOMB, \*MISS \_\_\_\_\_

1-2. GENERAL BIOLOGY. Two lectures and one recitation per week, supplemented by one laboratory period of two hours. The course has been arranged especially for those who desire a general knowledge of biology as part of a liberal education as well as for those who are preparing for advanced work. Field trips will be taken.

*Elective, open to all classes. 3 hours, through the year.*

3-4. GENERAL BOTANY. Two lectures and one recitation per week, supplemented by one laboratory period of two hours. This course is designed to give students a personal acquaintance with plants. In the field and laboratory. The structure and development of certain plants are studied from seed germination to fruit formation. Students are trained to recognize the common flowers from their botanical structure and values.

*Elective, open to all classes. 3 hours, through the year*

5. SYSTEMATIC INVERTEBRATE ZOOLOGY. This course consists of lectures and laboratory work on Protozoa, Porifera, Coelenterata, Vermes, Echinodermata, Mollusca and Arthropoda.

*Elective, open to all classes. 3 hours, first semester.*

6. VERTEBRATE ZOOLOGY. The student becomes familiar with a series of types of vertebrates, studying the comparative anatomy and progressive modifications of a fish, reptile, frog, bird and mammal.

*Elective. Prerequisite: Course 5. 3 hours, second semester.*

7. EMBRYOLOGY.

*Elective, 2 or 3 hours, first semester.*

8. HISTOLOGY AND MICROSCOPICAL TECHNIQUE. Laboratory practice in the preparation of material for microscopical study. This course is intended for those who expect to teach or do advanced work in biology.

*Elective, open to students by special permission. 2 or 3 hours, second semester.*

\* To be appointed.



9. DENDROLOGY. A study of our common trees. The course will consist of one out-of-door trip per week together with independent observation on the part of the student. About ninety trees will be studied in their summer and winter aspects.

*1 hour, first semester.*

10. ORNITHOLOGY. Lectures on the habits, homes and coloration of birds. There will be a few field trips in the spring.

*1 hour, second semester.*

11-12. A brief course in general biology based on Conn's text-book, designed for students who wish some knowledge of life processes as part of a general education. Lectures upon evolution, heredity, ancient and modern theories of the causation of disease, especially the germ theory, etcetera.

## CHEMISTRY

MISS BUTTERFIELD, \* MISS ———

1. GENERAL INORGANIC CHEMISTRY. Lectures and recitations on the history, occurrence, preparation, properties and uses of the more important elements and their compounds. In the laboratory the student prepares and transforms the chief substances studied. A few simple quantitative experiments are performed. Text-book: Stoddard's *Introduction to General Chemistry*.

*3 hours, first semester. Laboratory work, 3 hours weekly.*

This course, or course 1-2 in physics, required of students in the freshman or sophomore year.

2. QUALITATIVE ANALYSIS. Lectures, recitations, laboratory work. Ample practice in identifying unknown substances is given. The laboratory manual used is Stoddard's *Qualitative Analysis*.

*Elective. Prerequisite: Course 1. 3 hours, second semester.*

This course must be taken by those offering Course 1 as required science.

\* To be appointed.

3. (a) ORGANIC CHEMISTRY. Lectures and recitations upon typical organic compounds, their constitution, synthesis, relations, and transformations. Text-books: Remsen, and Perkin and Kipping.

*Elective. Prerequisite: Course 1. 2 hours, first semester.*

4. QUANTITATIVE ANALYSIS. Laboratory work. Lectures on gravimetric and volumetric laboratory methods.

*Elective, 2 hours, second semester.*

3. (b) ORGANIC CHEMISTRY. Laboratory practice. Simple organic compounds are studied and the synthesis of more complex substances from these is taken up. Attention is given to quantitative results. Text-books used are Orndorff's *Manual of Organic Chemistry* and Gattermann's *Practical Methods of Organic Chemistry*. Students electing Course 3 are urged to take this course if possible.

*Elective, 1 or 2 hours, first semester. Prerequisite: Courses 1, 2 and 3.*

5-6. ADVANCE ORGANIC CHEMISTRY. Lectures on methods. Each student is assigned a problem which she solves according to methods used in original research. An organic compound whose composition is unknown is examined and its empirical and structural formulas are determined. This determination involves the application of the most important laboratory methods used in organic research, such as combustions, molecular weight determination, etc. It is carried on independently by the student. The course is especially qualified to fit students for independent research and has that end in view.

*Elective, Prerequisite: Courses 1, 2, 3, a and b, 4.*

7-8. PHYSICAL CHEMISTRY. Lectures and recitations.

*Elective, Prerequisite: Courses 1 and 2. 1 hour, through the year.*

9-10. MUNICIPAL AND INDUSTRIAL CHEMISTRY. A study of some of the great industries of Pittsburgh. A practical course for students specializing in Chemistry, and for those who are working for certificates in Social Service. Such subjects as the Pittsburgh Water Supply, the Smoke Problem, Refuse Disposal, Radium Production, Plate Glass and Liquid Air are taken up in

detail. Frequent trips are taken, Pittsburgh offers for this study opportunities unequalled by those of any other city in the world.

*Elective, Prerequisite: General Chemistry, with trips, 2 hours, through the year; recitations only, 1 hour, through the year.*

11-12. DIETETICS. A study of the essential qualities of foods, their proper combination, their cost and the sources of supply. A brief, non-technical treatment of the fundamental problems of human nutrition, apportionment of the income, etcetera.

Laboratory work, supplemented by lectures and short recitations.

*Elective, open to all classes. 1 hour, through the year.*

13-14. SANITARY CHEMISTRY. Air, water, and food analysis. A study of the application of chemistry to problems of public health.

*Elective, Prerequisite: Courses 1, 2, 3, 4, 5. 2 or 3 hours, through the year.*

15-16. THE TEACHING OF CHEMISTRY. This course is designed for those intending to teach chemistry, or for those wishing a comprehensive review of general chemistry with practice in handling special apparatus. The student must be able to perform difficult experiments in demonstration, and to take charge of some of the laboratory work in Courses 1 and 2.

*Elective, open to seniors, and to others by special permission. 1 or 2 hours, through the year.*

## EDUCATION

MISS COOLIDGE

1. HISTORY OF EDUCATION. The development of educational ideals, institutions and methods, with special reference to modern educational thought and practice.

*Elective, open to juniors. 2 hours, second semester.. Open to seniors, 2 hours, first semester.*

3. CONTEMPORARY EDUCATIONAL PROBLEMS. Study of experiments in educational problems with reference to their psychological and social value.

*Elective, open to juniors. 1 hour, first semester.*

5. PRINCIPLES OF EDUCATION. A study of fundamental principles from the standpoint of the teacher. Emphasis is placed on the biological and physical aspects of education.

*Elective, open to seniors. 1 hour, first semester.*

6. A STUDY OF THE MODERN HIGH SCHOOL. A practical course in discussion of school activities and consideration of class-room method and management. Opportunity will be given for observation in Dilworth Hall and in selected High Schools.

*Elective, open to seniors. 2 hours, second semester.*

7-8. By co-operation between the departments of Social Service and Education, advanced students in both departments may have opportunity to study some lines of social work open to educational investigation and of practical value to teachers.

*Elective, open to seniors. 1 hour, through the year.*

See also courses: History 12, Mathematics 8, Chemistry 15-16, English 19.

The diplomas of students who have taken the two hundred hours of educational work required by the School Code are countersigned by the school authorities. The courses in other departments which may be counted to meet the State requirements are Philosophy, Courses B-1, B-2, A, A1; History Course 12; Mathematics, Course 8 and Chemistry, Course 15-16, English 19.

Graduates of the College have state teachers' certificates for Pennsylvania under the School Code. Arrangements have also been made with the New York State Board of Education whereby graduates receive the College Graduate Professional Certificate. Similar arrangements have been made with authorities in other states in which graduates have desired to teach.

In addition to the formal courses in this department there are numerous lectures at various times during the year by persons of distinction in educational lines.

## ENGLISH

MR. PUTNAM, MISS COOLIDGE, MISS LINDSAY, MISS DUTCHER

D. ENGLISH COMPOSITION. A study of the principles of composition and rhetoric. Their application in short themes and long themes. Text book. Class room discussions. Individual conferences.

*Required of freshmen. 2 hours, through the year.*

1. THE SHORT-STORY. A reading course in the literature of the Short-Story. A study of its nature and development as a distinct form. Assigned readings. Criticisms. Discussions.

*Elective, open to freshmen and specials. 3 hours, first semester.*

2. SHAKESPEARE. An intensive study of the idiom, poetry, dramatic structure, and character method of Shakespeare as exemplified in *The Merchant of Venice*, *Macbeth*, and *The Winter's Tale*.

*Elective, open to freshmen and specials. 3 hours, second semester.*

3. FORMS OF POETRY. A study of the nature of poetry and of its various forms as exemplified by the nineteenth century poets in English. Page's *British Poets of the Nineteenth Century* is used as the basis of study. Assigned readings. Critical reports. Discussions.

*Elective, open to freshmen and specials. 3 hours, first semester. Given in alternate years.*

4. FORMS OF FICTION. A study of the nature of prose fiction and of its types and characteristics. Complete masterpieces chosen from representative English novelists are read. Critical reports. Discussions. Lectures.

*Elective, open to specials and by special arrangement to freshmen and sophomores. 3 hours, second semester. Given in alternate years.*

C-1. CHAUCER. A study of the language and literature of Chaucer. Lectures on his life and times.

*Required of sophomores. 2 hours, first semester.*

C-2. SURVEY OF ENGLISH LITERATURE. An outline study of development of English Literature from Beowulf to Kipling. Assigned Readings. Discussions. Lectures.

*Required of sophomores. 2 hours, second semester.*

5. NARRATION. An advanced course in the rhetoric of feeling. A study of the principles of description and narration. Themes. Conferences. Lectures.

*Elective, open to all who have completed English D. 2 hours, first semester.*

6. ARGUMENTATION. An advanced course in the rhetoric of thought. A study of the principles of exposition and argumentation. Text book. Themes. Discussions.

*Elective, open to all who have completed English D. 3 hours, second semester.*

7-8. ADVANCED THEMES. A course designed to meet the needs of students specializing in the lyric or in the short story. The work consists of theme writing to meet the individual needs, and of personal conferences. Only a restricted number of students will be accepted each semester. Only students of high rank in their freshman composition will be accepted.

*Elective, open to juniors and seniors and to sophomores by special arrangement. 1 hour, first or second semester.*

9. AMERICAN LITERATURE. An outline study of the development of American Literature. Lectures. Assigned readings. Reports. At the instructor's option this may be restricted to the chief American poets.

*Elective, open to juniors and seniors and to sophomores by special arrangement. 3 hours, first semester. Given in alternate years. Will be offered in 1915-1916.*

10. NINETEENTH CENTURY POETRY. A study of the romantic movement in English poetry from Burns to Kipling. Lectures. Assigned readings. Critical reports. The instructor reserves the privilege of confining the course to a group of poets or to the work of one poet.

*Elective, open to sophomores, juniors, and seniors. 3 hours, second semester. Given in alternate years. Will be offered in 1915-1916.*



11-12. THE NOVEL. A study of the origin and development of prose fiction. Assigned reading of complete masterpieces of the representative novelists from Beowulf to DeMorgan. Reports. Lectures.

*Elective, open to juniors and seniors. 3 hours, through the year. Given in alternate years. Will be offered in 1914-1915.*

13-14. ANGLO SAXON. A reading course in the grammar and language of Old English. The first semester is devoted to Anglo Saxon prose, and the second semester to Beowulf.

*Elective, open to juniors and seniors. 3 hours, through the year. Given in alternate years. Will be offered in 1915-1916.*

15-16. THE DRAMA. An intensive study of the origin and development of the English drama. Lectures. Readings from the great dramatists.

*Elective, open to juniors and seniors. 3 hours, through the year. Given in alternate years. Will be offered in 1914-1915.*

17-18. BROWNING. A seminar in the poetry and philosophy of Robert Browning. Lectures. Papers. Discussions.

*Elective, open to seniors. 1 hour, through the year. Will be offered in 1915-1916.*

19. THE TEACHING OF ENGLISH IN SECONDARY SCHOOLS. A practical course in methods of presentation of subject matter. Opportunity will be given for observation in Dilworth Hall and in selected High Schools.

*Elective, open to seniors. 1 hour, first semester.*

## EXPRESSION

MISS KERST, MISS MCGREW

The aim of this department is to foster in the student a larger appreciation of the truth and beauty of great prose and verse, and at the same time to develop the power of expressing to others the results of such literary work. Expressional study of the best kind cultivates beauty of speech, trains the intellect, educates the emotions and puts the student into full command of the forces of body and mind.



Elective courses are offered for all college classes, and private work may be arranged by consultation with the instructor. Persons not registered for courses in other departments may become special students in Expression.

Students' recitals are occasionally given.

1-2. GENERAL PRINCIPLES OF VOCAL EXPRESSION. Principles of articulation. Oral gymnastics for distinct, firm, fluent articulation. Physiology of vocal organs with exercises for developing the voice and improving its quality, also for correct breathing. Selections are analyzed and students are assigned definite work for presentation before the class. One laboratory appointment each month.

*Elective, open to freshmen. 1 hour, through the year.*

3-4. DEBATE, EXTEMPORANEOUS SPEAKING, INTERPRETATION. A course designed to develop the powers of self-expression, and of recreating and expressing the thoughts of others. One laboratory appointment each month.

*Elective, open to freshmen and sophomores. 2 hours, through the year.*

5-6. INTERPRETATIVE READING. Shakespeare, Browning, Tennyson.

*Elective, open to juniors, and required of those who have not previously taken Expression. 1 hour, through the year.*

7-8. ADVANCED TRAINING FOR MIND AND BODY. The study and presentation of one drama.

*Elective, open to seniors. 1 hour, through the year.*

9-10. DRAMATIC APPRECIATION. A study of the history of dramatic art and the theory of dramatic construction. Analysis of plays of the different periods in the history of the drama.

*Elective, open to all college students. 2 hours, first semester.*

11-12. STORY TELLING. The course is designed for those desiring to do story telling in play ground, children's library, school, settlement, Sunday school and home work. The study of story telling as related to child psychology; the origin and ways of telling stories; telling, classifying, grouping and adapting of stories.

*Elective, open to all social service students. 1 hour, first or second semester.*

## REQUIREMENTS FOR CERTIFICATE IN EXPRESSION

1. Seven hours of college work a year for two years, which may be chosen from Rhetoric, English, History, Modern Languages, Aesthetic Dancing, Plays and Games, Physics (Course 3,) Psychology, Education.
2. Seven hours of work a year in the Department of Expression, for two years, including all the courses offered by the department, and two private lessons per week.
3. The presentation of one public program the first year, and two the second, with the final program at graduation.

## FRENCH

MISS ELY, MADAME deVALLAY

1-2. ELEMENTARY COURSE. Fraser and Squair's Grammar. Reading of short stories in French. Prose Composition. Special attention given to phonetic training and conversation.

*Elective. Offered to freshmen and sophomores who have presented no French at entrance. 3 hours, through the year.*

3-4. INTERMEDIATE COURSE. French literature as basis for study. Reading of representative French authors. Advanced grammar and composition. Conversation.

*Elective. Open to students who have presented one unit of French. 3 hours, through the year.*

5-6. FRENCH CLASSICS. Critical study of Racine, Corneille and Moliere. Composition, conversation, résumés of all plays read.

*Elective. Prerequisite: Course 3-4. 3 hours, through the year.*

7-8. THE PRECURSORS OF THE FRENCH ROMANTIC SCHOOL. Lectures on representative authors. Reading selections from Madame de Staël, Madame de Lafayette, Rousseau, Chateaubriand, Lamartine. Composition, conversation.

*Elective. Prerequisite: Course 5-6 or its equivalent. 2 hours, through the year.*

9-10. ORIGIN AND DEVELOPMENT OF THE FRENCH LANGUAGE. Lectures on the literature of the sixteenth century. Reading of selections from representative authors. Composition, conversation.

*Elective. Prerequisite: Course 3-4 or its equivalent. 2 hours, through the year.*

11-12. HISTORY OF FRENCH LITERATURE. Conducted in English, with special reference to Librarians and students planning similar lines of work.

*Elective. 2 hours, through the year.*

13-14. CONTEMPORARY LITERATURE. Rapid reading of current fiction and drama with discussion of modern tendencies in literature.

*Elective. Prerequisite: Course 5-6 or its equivalent. 2 hours, through the year.*

15-16. PROSE COMPOSITION AND DICTATION AS A BASIS OF CONVERSATION. Thorough study of syntax, idioms and synonyms.

*Elective. Recommended to those who wish to teach. 1 hour, through the year.*

17-18. THE FRENCH DRAMA OF THE NINETEENTH CENTURY, with brief résumé of its earlier development. Rapid reading course. Composition based upon works read. Topics assigned for reports. Conversation.

*Elective. Prerequisite: Course 5-6. 2 hours, through the year.*

19-20. FRENCH EPICS. Lectures on *La Chanson de Roland*, *La Henriade*, *La Légende des Siècles*. Reading of the epics.

*Elective. Prerequisite: Course 17-18. 2 hours, through the year.*

21-22. CONVERSATIONAL COURSE BASED ON EVERY DAY LIFE AND TRAVEL. Supplementary reading of French magazines and newspapers required.

*Elective. 1 hour, through the year.*

## GERMAN

FRAULEIN RANDOLPH

1-2. ELEMENTARY COURSE. Grammar, prose composition, reading of short stories and plays by modern writers, memorizing of poetry, conversation.

*Elective. Open to students who present no German at entrance. 3 hours, through the year.*

3-4. INTERMEDIATE COURSE. Reading of modern German prose, and of the simpler classical dramas; grammar, prose composition, conversation.

*Elective. Open to students who present two units of German, or who have taken Course 1-2. 3 hours, through the year.*

5-6. COURSE IN GERMAN CLASSICS. Reading from the dramas and poems of Goethe, Schiller and Lessing. Lectures in the German language upon the classical period. Essays and oral reports upon assigned topics.

*Elective. Open to students who present three units of German, or who have taken Courses 1-2 and 3-4. 3 hours, through the year.*

7-8. ADVANCED GERMAN COMPOSITION AND SYNTAX. Selected passages from English authors translated into idiomatic German. Original themes upon assigned topics. Study of idioms, synonyms and syntax.

*Elective. Prerequisite: Courses 1-2 and 3-4, or their equivalents; especially recommended to those who expect to teach German. 1 hour, through the year.*

9-10. OUTLINE HISTORY OF GERMAN LITERATURE. A rapid survey of the principal movements and productions of the national literature, supplemented by assigned readings. This course is intended to serve as an introduction to the detailed study of special periods and is recommended to all students desiring to specialize in German.

*Elective. Prerequisite: Courses 1-2, 3-4, 5-6, or their equivalents, or by permission, to freshmen entering with 3 units of German. 1 hour, through the year.*

11-12. LITERATURE OF THE NINETEENTH CENTURY. Reading and discussion of representative works of the best known authors. Lectures. Essays.

a. The drama. 1 hour, through the year.

b. The novel. 2 hours, through the year.

*Elective. Prerequisite: Course 5-6.*

13-14. CONTEMPORARY LITERATURE. Rapid reading of current fiction and dramas with discussion of modern tendencies in literature. Lectures. Essays.

*Elective. Prerequisite: Course 5-6. 2 hours, through the year.*

15-16. LEGENDARY CYCLES OF THE MIDDLE AGES. A brief survey of Germanic mythology, tracing the origin and development of the principal legends. Reading of mediæval epics in modern German translation. Comparative study of the Wagnerian opera texts.

*Elective. Prerequisite: Courses 9-10 and 11-12. 2 hours, through the year.*

17. LESSING'S LIFE AND WORKS. Study of his critical and controversial writings.

*Elective. Prerequisite: Courses 7-8 and 11-12. 2 hours, first semester.*

18. SCHILLER'S LIFE AND WORKS. Study of his historical prose, philosophical poems and aesthetic, critical writings.

*Elective. Prerequisite: Courses 7-8 and 11-12. 2 hours, second semester.*

19. GOETHE'S LIFE AND WORKS. Survey of his life, with special reference to his prose writings.

*Elective. Open to juniors and seniors. 2 hours, first semester.*

20. GOETHE'S FAUST. PART I AND II. Development of the Faust legend and the genesis of Goethe's Faust. Methods of Faust interpretation.

*Elective. Open to juniors and seniors. 2 hours, second semester.*

23. HEINE AND THE ROMANTIC SCHOOL. Lectures and readings.

*Elective. Open to juniors and seniors. 2 hours, first semester.*

21-22. COLLOQUIAL GERMAN. Discussions and themes based upon German life, customs and travel.

*Elective. Open by permission to students electing the advanced courses. 1 hour, through the year.*

## GREEK

MISS NICHOL, MISS GREEN

1-2. ELEMENTARY COURSE, prose composition, Xenophon's Anabasis, Book 1-2.

*Elective, open to all students. 3 hours, through the year.*

3-4. XENOPHON'S ANABASIS BOOK 3-4, with prose composition. Selections from Homer's Iliad and Odyssey. The purpose of this course is the completion of college entrance requirements in Greek; and the appreciation of the Homeric Epics by use of the text and translations supplemented by lectures and assigned readings upon such topics as Pre-Homeric Life, The Homeric Question, Ancient Troy.

*Elective. Prerequisite: Course 1-2. 3 hours, through the year.*

5-6. THE ATTIC ORATORS. Selections from Lysias, Socrates, and Demosthenes. Plato, Apology and Crito. Prose composition based upon the authors studied.

*Elective. Open to freshmen entering with three units of Greek and to students who have completed courses 1-2 and 3-4. 3 hours, through the year.*

7-8. THE DRAMA. A study of the old Greek drama as represented by plays of Aeschylus, Sophocles, Euripides, and Aristophanes, with lectures tracing the origin, development and decay.

*Elective. Prerequisite: Course 5-6. 2 hours through the year. Given in alternate years. Will be offered 1915-1916.*

9-10. HISTORY. Selections from Herodotus and Thucydides. Lectures and assigned topics.

*Elective. Prerequisite: Course 5-6. 2 hours, through the year. Given in alternate years. Will be omitted in 1915-1916.*

11-12. GREEK PROSE COMPOSITION.

*Elective. Prerequisite: Course 5-6. 1 hour through the year.*

13-14. HISTORY OF GREEK LITERATURE. The purpose of this course, like that of Latin 11-12 is to present the subject not only to students of the language, but also to other advanced students of general literature. A knowledge of the Greek language is, therefore, not required.

*Elective for advanced students. 1 hour, through the year.*

## HISTORY AND POLITICAL SCIENCE

MISS BROWNSON, MISS WHITE

D. EUROPEAN HISTORY FROM THE PERIOD OF THE BARBARIAN INVASIONS TO THE RENAISSANCE. A study of the beginnings of the great nations, and of such topics as feudalism, the crusades, the growth of towns, and the struggles between church and state.

*Required of freshmen. 3 hours, through the year.*

1-2. EUROPEAN HISTORY FROM THE BEGINNINGS OF THE RENAISSANCE TO THE CLOSE OF THE EIGHTEENTH CENTURY. A study of political, intellectual and social progress, emphasizing the characteristic features and results of the Renaissance movement, the Protestant reforms, the Wars of Religion, the Revolutionary and Napoleonic periods in France.

*Elective. Prerequisite: Course D. 3 hours, through the year.*

3-4. THE DEMOCRATIC MOVEMENT IN THE LAST HUNDRED YEARS. This work begins with the Congress of Vienna, and takes up the development of the nations of today. Such subjects are discussed as the rebirth of Italy, the creation of the German Empire, and the rise of the Balkan States.



*Elective. Prerequisite: Courses D and 1-2. 3 hours, through the year.*

5. AMERICAN CONSTITUTIONAL HISTORY. A study of the constitution of the United States, with special reference to the powers of the federal government and its relations with the governments of the several states.

*Elective. Prerequisite: Courses D and 3-4. 2 hours, first semester.*

6. AMERICAN DIPLOMATIC HISTORY. A survey of the international relations of the United States, including questions of dispute during the last century between the United States and European countries, relations with Latin America and the Far East, the share of the United States in the Hague Conferences.

*Elective. Prerequisite: Courses D, 3-4 and 5. 2 hours, second semester. Will not be offered in 1915-1916.*

7-8. CONTEMPORARY HISTORY. A study of periodical literature with a view to understanding the great questions dealt with by nations to-day.

*Elective. 1 hour, through the year.*

10. INTERNATIONAL LAW. A course designed to aid students in the understanding and discussion of international relations. It will be conducted by means of a text-book, and library references. The study of some important cases will be undertaken.

*Elective, open to seniors. 2 hours, second semester. Will be offered in 1915-1916*

12. THE TEACHING OF HISTORY. A consideration of the use of historical material, the criticism of text-books, and the methods of teaching history in elementary and secondary schools. Opportunity will be given for observation work in city schools.

*Elective, open to seniors. 1 hour, second semester.*

13-14. HISTORY OF ART. This course includes a study of the development of Architecture, Sculpture and Painting. Its aim is to cultivate the judgment and enlarge the horizon of the student.

*Elective. 2 hours, through the year.*

## ITALIAN

FRAULEIN RANDOLPH

1-2. ELEMENTARY COURSE. Grammar, prose composition. Reading of short stories and plays by modern authors. Memorizing of poetry. Conversation.

*Elective. 3 hours, through the year.*

3-4. INTERMEDIATE COURSE. Reading of modern Italian prose and of simple classical dramas. Grammar, prose composition. Conversation.

*Elective. Prerequisite: Course 1. 3 hours, through the year.*

## LATIN

MISS NICHOL, MISS GREEN

1-2. LIVY. Selections from Books I, XXI, XXII. CICERO, De Senectute, or De Amicitia. HORACE, Odes and Epodes. Composition work based upon the prose writers studied.

*Elective, open to freshmen. 3 hours, through the year.*

3-4. LATIN COMEDY, PLAYS OF PLAUTUS AND TERENCE. HORACE, Satires and Epistles.

*Elective. Prerequisite: Course 1-2. 2 hours, through the year.*

5-6. LYRIC AND ELEGIAC POETRY. Catullus, Tibullus, and Propertius. Tacitus, Agricola, Selections from the Annals bearing directly upon the character of the Emperor Tiberius.

*Elective, open to juniors and seniors. 2 hours, through the year. Given in alternate years. Omitted 1915-1916.*

7-8. LUCRETIUS. DE RERUM NATURA. An introduction to the study of Roman philosophy. Roman society of the Early Empire, particularly as portrayed by Juvenal and Pliny.

*Elective, open to juniors and seniors. 2 hours, through the year. Given in alternate years. Offered 1914-1916.*

9-10. ADVANCED PROSE COMPOSITION.

*Elective, open to juniors and seniors. 1 hour, through the year.*

11-12. HISTORY OF LATIN LITERATURE. The subject is presented by means of lectures, assigned topics and the use of translations.

*Elective, open to juniors and seniors of the Latin department and other advanced students of literature. A knowledge of the Latin language is not required. 1 hour, through the year.*

13-14. PRIVATE LIFE OF THE ROMANS. Topography and Monuments of Rome.

*Elective, open to all students. 1 hour, through the year.*

## MATHEMATICS

MISS BENNETT

D-1. SOLID GEOMETRY. Theorems and constructions as given in Durell's *Solid Geometry*. Solution of numerous original exercises, including loci problems. Application to the mensuration of surfaces and solids.

*Required of freshmen. 3 hours, first semester.*

D-2. PLAIN AND SPHERICAL TRIGONOMETRY. Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles. Proofs of principal formulas, in particular for the sine, cosine and tangent of the sum and difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines; the transformation of trigonometric expressions by means of these formulas. Solution of trigonometric equations. Theory and use of logarithms. Solution of right, oblique and spherical triangles and practical applications.

*Required of freshmen. 3 hours, second semester.*

1. HIGHER ALGEBRA. Permutations and combinations. Complex numbers with graphical representation of sums and differences. Determinants, including the solution of linear equations.

Binomial theorem, with proof. Numerical equations of higher degree and the theory of equations, with graphical methods, including Descartes' rule of signs and Horner's method.

*Students intending to pursue the course in higher mathematics are required to elect this course. Prerequisite: Course D-2. 2 hours, first semester.*

2. HISTORY OF MATHEMATICS. This course is offered in the belief that it is essential to a thorough understanding of elementary mathematics. It treats of the development of mathematics from the earliest known times to the invention of analytic geometry by Descartes in 1637. The subjects considered are number systems, numerals, arithmetic, algebra and geometry.

*Elective, prerequisite: Course D-2. 2 hours, second semester.*

#### 3-4. ANALYTIC GEOMETRY, PLAIN AND SOLID.

*Elective, prerequisite: Course D-2. 3 hours, through the year.*

#### 5-6. DIFFERENTIAL AND INTEGRAL CALCULUS.

*Elective, prerequisite: Course 3-4. 3 hours, through the year.*

#### 7. HISTORY OF HIGHER MATHEMATICS.

*Elective, prerequisite: Course 5-6, or may be taken parallel with Course 5-6. 2 hours, first semester.*

8. THE TEACHING OF ELEMENTARY MATHEMATICS. This course is intended for those who wish to teach mathematics in High Schools. Young's *Teaching of Mathematics* is used as a text book. Instruction is given in the explanation of Mathematical processes to elementary classes. Opportunity is afforded to observe teaching in the city High Schools.

*Elective. 2 hours, second semester.*

9. ASTRONOMY. Descriptive and historical. The Celestial Sphere. The Solar System. The Stellar System. Location of principal constellations.

The College owns a good 4¼ inch refracting telescope, which is at the disposal of the student for observing the sun, moon, stars and nebulae.

*Elective, prerequisite: Mathematics, Courses D-1 and D-2. 2 hours, first semester.*

## MUSIC

MR. WHITMER

1-2. HARMONY. Study of chords in both modes. Ear training, analysis, harmonization. Immediate application of knowledge to composition of pieces in simple forms.

*Elective. 2 hours, through the year.*

3-4. HARMONY. A course embracing all theoretical factors fundamental to chord structure, (keys, scales, rhythm, etc). Study of chords in both modes. Ear training, analysis, harmonization. Composition in simple forms.

*Elective. 1 hour, through the year.*

5-6. COUNTERPOINT AND COMPOSITION. Early and modern contrapuntal methods contrasted. Detailed study of melodic and rhythmic construction, with practical application to composition.

*Elective. Open to students who have taken Course 1-2. 2 hours, through the year.*

7-8. DOUBLE COUNTERPOINT, CANON AND FUGUE. Analysis and composition.

*Elective. Open to students who have taken Courses 1-2 and 3-4. 1 hour, through the year.*

9-10. MUSICAL FORMS AND FREE COMPOSITION. Analysis of both normal and radical musical formations with immediate practice. Development of freedom in use of material.

*Elective. Prerequisite: Courses 1-2 and 5-6. 1 hour, through the year.*

11-12. ORCHESTRATION. Detailed theoretical and practical study of orchestral instruments, their individual characteristics and their relation to the score. Score reading.

*Elective. Prerequisite: Courses 1-2, 5-6 and 7-8. 1 hour, through the year.*

13-14. HISTORY OF MUSIC. Study of the great works, composers and virtuosi. Development of notation. Comparative study of musical periods.

*Elective. Open to students who have taken or are taking Course 1-2. 2 hours, through the year.*

15-16. HISTORY OF MUSIC. Advanced course. Research work on special topics adopted to personal requirements. American music receives special emphasis.

*Elective. 1 hour, through the year. 2 hours, through the year. Open to students who have taken course 13-14.*

17-18. APPRECIATION OF MUSIC. A free and untechnical study of men, masterpieces and criticism. Brief programs are given in connection with the lectures.

*Elective. Open to all students. 1 hour, through the year.*

The College believes in the cultural power of music and in its value in the higher education of women. It expects to enlarge the courses and to keep music on the high intellectual plane which is increasingly accorded to it by colleges.

Courses in the history and theory of music are counted toward the baccalaureate degree. Practice courses may be so counted if combined with a proper amount of history and theory.

Information concerning courses in all departments of music may be found on pages 81-92.

## PHILOSOPHY

MISS HOLCOMB, MISS BENNETT

B-1. PSYCHOLOGY. A study of the laws and the phenomena of the mind.

*Required of juniors. 3 hours, first semester.*

B-2. LOGIC. A study of the principles of inductive and deductive reasoning, and of the relation of logical theory to scientific and philosophic thought.

*Required of juniors. 2 hours, second semester.*

A-1. ETHICS. The history of ethical philosophy, and a study of the fundamental principles of morality.

*Required of seniors. 3 hours, first semester.*

2. INTRODUCTION TO PHILOSOPHY. A brief survey of the scope and the problems of Philosophy. with a general outline of its history.

Lectures, discussions, collateral readings.

*Elective, prerequisite: Course A. 2 hours, second semester.*

4. CHRISTIAN EVIDENCES. An outline of the grounds upon which the Christian system rests.

*Elective, open to sophomores, juniors and seniors. 2 hours, second semester.*

## PHYSICAL EDUCATION

MISS ABBOTT

1-2. GYMNASTICS. Marching, free hand work, light apparatus work, including wands, Indian Clubs and dumb bells; games. Games on the athletic field in the spring and fall.

*Required of freshmen. 1 hour, through the year.*

3-4. ADVANCED GYMNASTICS. A continuation of Course 1-2 with advanced work along the same lines.

*Required of sophomores. 1 hour, through the year.*

5-6. AESTHETIC DANCING. Dancing positions, rhythmical movements and simple aesthetic dances, including folk dancing.

*Elective, open to juniors, seniors and special students. 1 hour, through the year.*

7-8. ADVANCED AESTHETIC DANCING.

A continuation of course 5-6 with advanced work. A study of the interpretation of music through dancing.

Original work required. The dancing skirt will be worn in this class.

This course will be given if elected by twelve students.



*Elective, open to juniors, seniors and special students who have taken course 5-6.*

*1 hour, through the year.*

9-10. PLAYS AND GAMES. A study of the games and folk dances used in social service and playground work. The practical side of the work is emphasized, and the student is required to teach in the class.

*Elective, open to all students. 1 hour, through the year.*

11-12. HYGIENE. Lectures on personal and general hygiene. This course includes a general study in physiology and anatomy and a short course in First Aid to the Injured.

*Elective, open to all students. 1 hour, through the year.*

## PHYSICS

MISS HOLCOMB

1-2. GENERAL EXPERIMENTAL PHYSICS. Mechanics, sound, heat, light, electricity and magnetism. Illustrated lectures, recitations and problems. 3 hours a week; laboratory work, one 3 hour period a week. Text-book: Carhart's *College Physics*.

*Elective, 3 hours, through the year.*

This course, or courses 1 and 2 in chemistry, is required of students in the freshman or sophomore year.

3. SOUND. The physical theory of sound, musical instruments, and the acoustics of buildings. A lecture and recitation course. No laboratory work. This course is conducted especially for students in music and expression.

*2 hours, first semester. Alternate years.*

4. HEAT. Recitations, supplemented by experimental demonstrations and library study. Text-book: Edser's *Heat for Advanced Students*.

*Prerequisite: Course 1-2. 2 hours, second semester. Alternating with Course 8.*

5. LIGHT. Recitations, supplemented by illustrated lectures and library study. Text-book: Edser's *Light for Students*.

*Prerequisite: Course 1-2. 2 or 3 hours, first semester, alternating with Course 7.*

6. LIGHT. Laboratory work and special topics planned especially for students who expect to teach physics.

*Open only to those who elect Course 5. One 2 hour period, second semester.*

7. ELECTRICITY AND MAGNETISM. The course includes a study of the practical applications of electricity.

*Prerequisite: Course 1-2. 1 or 2 hours, through the year, or 2 hours, first semester.*

8. ELECTRICITY AND MAGNETISM. Laboratory course.

*Open only to those who elect Course 7. One 2 hour period, second semester. Alternating with Course 4.*

9-10. GENERAL PHYSICS. A course planned for those expecting to teach Science.

*Prerequisite: Course 1-2. 1 or 2 hours, through the year.*

## SOCIOLOGY AND ECONOMICS

MISS MELOY

1-2. SOCIAL SERVICE. Introduction to social economy. Study of theory and observation. Theory: The causes of poverty; the history, principles, and methods of organizations for relief and social welfare. The newer forms of preventive and constructive work are emphasized. Observation: Weekly visits to carefully selected institutions and agencies in and near Pittsburgh.

*Elective, open to sophomores, juniors and seniors, and to special students. 2 hours, through the year.*

3-4. SOCIAL SERVICE. Theory and practice. Theory: Public and Private care of dependent classes; treatment of needy families; administration of charities; social legislation.

Practice: Weekly field work under direction of a social settlement child-helping society, the Associated Charities, or other social agency.

*Elective, prerequisite: Course 1-2. Open to juniors, seniors and special students. 2 hours, through the year.*

5-6. SOCIAL SERVICE. Detailed study of social problems and weekly practice in social work. Each student is required to write an essay, showing personal experience and special knowledge of methods in a field chosen by herself. Instruction in statistical methods of social investigation.

*Elective, prerequisite: Courses 1-2 and 3-4. Open to advanced students. 2 hours, through the year.*

7-8. SOCIOLOGY. First semester: Elements of general sociology, with lectures on the views of prominent sociologists.

Second semester: The social order and its organizations. Textbook: Cooley's *Social Organization*.

*Elective, open to juniors and seniors, and to special students. 2 hours, through the year.*

9-10. ECONOMICS. An introduction to principles and to practical economic problems.

*Elective, open to juniors and seniors, and to special students. 2 hours, through the year.*

11. CIVICS. Forms and functions of the American government with special reference to good citizenship. Lectures, readings and papers.

*Elective, open to all students. 1 hour, first semester.*

12. IMMIGRATION. The history, causes and effects of American immigration. Lectures, readings and papers. Designed for students who expect to work with immigrants.

*Elective, open to all students. 1 hour, second semester.*

## SPANISH

Given upon request

1-2. ELEMENTARY COURSE. Grammar. Reading of short stories and selections from Don Quixote. Special attention given to oral work, pronunciation and conversation.

*Elective. 3 hours, through the year.*

## LECTURES

1914-1915

The following list comprises the lectures delivered to students as part of the academic work. They are given at a morning lecture hour and attendance is required.

John Synge and the Ireland of his Time . . . . .	William Butler Yeats
Municipal Housekeeping . . . . .	Mr. Allan Burns
Resources of the Art Department of Carnegie Institute, Illustrated . . . . .	Miss Alice Putnam
Little Trips Among the Stars . . . . .	Dr. John A. Brashear
Dilworth Hall Exercises . . . . .	Dr. Hugh Kerr
Baccalaureate Service . . . . .	Dr. William L. McEwan
Commencement Exercises . . . . .	Dr. Newell Dwight Hillis
The Effect of the Present War upon the Condition of Women . . . . .	Mrs. Harriet Ford
Kingsley House . . . . .	Mr. Charles Cooper
Parliamentary Law . . . . .	Mrs. Wm. Anderson
Temperance . . . . .	Mr. John H. Dickason
The Irish Drama . . . . .	Mr. Padriac Colum
Education of Women in Constantinople . . . . .	Dean Louise Wallace
The European Situation . . . . .	Dr. W. H. McEwan
The Appeal of the Picture . . . . .	Mrs. T. C. Whitmer
Reminiscences of French Life . . . . .	Mme. Josephine de Vallay
T. B. Aldrich . . . . .	Dr. Wm. N. Davidson
Education in India . . . . .	Mr. John T. Cornelius
Women of India . . . . .	Mrs. Paul Appasamy
Reaction of Pittsburgh Survey . . . . .	Miss Luella P. Meloy
Violin Recital . . . . .	Mrs. Walter Mellor

Christmas Service . . . . .	Dr. J. K. McClurkin
Philosophy of Robert Browning . . . . .	Pres. John C. Acheson
The French Life of Mary Stuart . . . . .	Miss Mary W. Brownson
Irish Fairy and Folklore . . . . .	Mr. Seumas MacManus
Commission Government for Cities . . . . .	Mr. John Z. White
Day of Prayer for Colleges . . . . .	Pres. John C. Acheson
Piano Recital . . . . .	Miss Mae B. MacKenzie
New Vocations for Trained Women . . . . .	Miss Cora Helen Coolidge
Non-Teaching Professions for Women . . . . .	Miss Florence Jackson
Department of Public Health . . . . .	Dr. J. F. Edwards
Health Talks . . . . .	Dr. Rachel Williams

## RELIGIOUS AND SOCIAL LIFE

The College is thoroughly Christian in spirit and influence, but undenominational in its management and instruction. Students are expected to be present at daily prayers in the Chapel, and resident students to be regular attendants at church on Sunday mornings and at the Sunday Vesper services in Berry Hall. The Young Women's Christian Association maintains a mid-week prayer meeting and weekly Bible classes; and contributes to mission work at home and abroad. Systematic Bible study is one of the college requirements and four hours of such work are prescribed in the departments of literature and history.

The daily life of the residence halls is regulated by student government, under the direction of the house president and executive committee, who are elected by the students, subject to the approval of the Dean.

The College emphasizes religious and social life, for it believes both are essential parts of a liberal education. Arrangements for the comfort and well-being of resident students are made by the Dean and the social plans of all classes are submitted to her before action is taken. General receptions for students and their friends are held at mid-year and in connection with the Commencement exercises. Smaller gatherings of faculty and students occur at intervals throughout the year. The traditional College celebrations are those of Hallowe'en, Christmas, Saint Valentine's Day, and May Day, participated in by the student body. The separate classes take the initiative in more formal

entertaining at suitable times. The Young Women's Christian Association gives a reception to new students at the beginning of the year, and conducts various benefits during the year for the support of its benevolent and missionary work.

### STUDENT ACTIVITIES

The Student Government Association is organized to control such matters of college interest and discipline as may be delegated to it by the Faculty. Resident students have a branch of the Association which has in charge the interest of the dormitory

The Young Women's Christian Association holds weekly prayer meetings and monthly missionary meetings. It has organized Bible classes. The Association maintains a Bible Reader and a Kindergarten in India, and is responsible for the equipment of a room in the Young Women's Christian Association Building in Pittsburgh. Delegates are sent to the annual conventions and an active part is taken in all work looking toward the strengthening of the religious forces of the institution.

The Sorosis, the college magazine, is published monthly by the students and represents the varied interests of college life. It aims to maintain a high literary standard.

The Omega Society has a membership chosen with respect to scholarship and literary ability. Its work is the promotion of an interest in literature and the providing of opportunities for practice in the art of expression. The Society holds occasional open meetings for the presentation of special programs.

Der deutsche Verein is carried on by the students of the German Department and its programs are in that language. It is both literary and social in character.

The Whitmer Music Club is open to all students of music and members of musical organizations. Monthly meetings are held at which programs of vocal and instrumental music are presented. Included in the programs are discussions of various phases of music. The season of 1914-1915 had special programs of American, German, French and other national music.

The Dramatic Club has for its work the critical study of pieces of dramatic literature as a means of personal culture for its members, and the occasional presentation of carefully selected plays.

The principal event of the club year is the production of Senior Dramatics at Commencement time. In 1914 the play presented was *As You Like It*, by Shakespeare, and was given a most artistic setting on the college campus.

The Athletic Association is a wide-awake organization which affords the students of the College an opportunity to play basketball, tennis and all out-door games. It is the aim of the Association to foster the growth of college spirit and also to help with the running expenses of the tennis court and the basketball teams. Through the efforts of the members some very valuable apparatus has been purchased for the gymnasium.

The Glee Club furnishes an excellent opportunity for training in voice. The club responds to many calls for its service at college affairs and occasionally in the city, and gives an annual concert by itself and with the Mandolin Club, and the two give a joint annual concert with clubs from one of the neighboring colleges for men. It has an enthusiastic membership and its work is much valued in the college life.

The Mandolin Club is open to students who play the mandolin, guitar or violin. Annual concerts are given in connection with the Glee Club and music furnished, not only for college functions, but for entertainments given in the city.

## SCHOLARSHIPS

Two scholarships are open to students of ability who expect to pursue regular courses of study, but who need financial aid in meeting the necessary expenses of a college education.

1. THE HELEN E. PELLETREAU SCHOLARSHIP. A fund has been raised by the Alumnae to establish a scholarship in honor of Miss Helen E. Pelletreau, for many years the able and beloved President of the College. This fund has not yet been made up to the full amount necessary, and contributions to it are earnestly solicited. They should be sent to Miss Rebecca Renshaw, 406 Morewood Ave., Pittsburgh, Pa.

2. THE MARY HAWES NEVIN SCHOLARSHIP. To fulfill a wish expressed by the late Mary Hawes Nevin, an alumna of the Class of 1896, her family has given the sum of \$6,000 to establish



a scholarship to bear her name, and thus perpetuate the memory of her beautiful life and her interest in young women ambitious for the advantage of a college course.

The Helen E. Pelletreau Scholarship is awarded by the Scholarship Committee of the Alumnae Association, the Mary Hawes Nevin Scholarship by Mrs. John I. Nevin. These scholarships are held for one year, but may be renewed upon application.

### FEES

	PER YEAR
Tuition . . . . .	\$125.00
Room rent, including light and heat . . . . .	100.00
Table board . . . . .	225.00
Physical Training—	
Private lessons, twice a week . . . . .	\$100.00
Private lessons, once a week . . . . .	60.00
In classes of four, twice a week . . . . .	25.00
Expression—	
Private lessons, twice a week . . . . .	100.00
Private lessons, once a week . . . . .	60.00
For Music Fees, see page 91.	
Laboratory—	
Biology 1-2, Physics 1-2, or Chemistry 1-2 . . . . .	10.00
Advanced science course fee in proportion to material used.	
Tutoring, per hour . . . . .	1.00
Private Examination . . . . .	2.00
Diploma—	
Bachelor of Arts . . . . .	5.00
Master of Arts . . . . .	10.00
Laundry, plain pieces, per dozen . . . . .	.50
Luncheon, for day students . . . . .	.25
Boarding during vacation, per week . . . . .	9.00
General Nursing . . . . .	5.00
Pew Rent . . . . .	5.00

### REGISTRATIONS FOR PAYMENT

All bills for boarding, tuition and extras are due, one-half at the beginning of the college year and the remainder on February 1. Checks should be made payable to Pennsylvania College for Women.

No degrees will be conferred unless all bills due to the College by the candidate have been paid.

## APPLICATION FOR ROOMS

All applications will be registered and rooms not engaged by former students will be assigned according to the date of application. There are a few double rooms, but the bedrooms are generally arranged in suites of two single rooms. Any information concerning the rooms will be given upon application to the Dean.

Resident students are received for *the year only*, or so much of it as remains at the time of entrance. Parents or guardians will be held responsible for full payment for resident students from *the date at which they had engaged to enter their daughters or wards until the close of the year in June, and no deduction will be made in bills because of absence or premature withdrawal except in case of serious and protracted illness, when the loss for board and room will be equally shared.*

All unnecessary wear of carpets, furniture, etc., is charged to the students occupying the room.

A new well equipped laundry gives excellent service for students at reasonable rates.

## CORRESPONDENCE

Business inquiries and letters concerning the entrance of students should be addressed to Pennsylvania College for Women, Pittsburgh, Pa. Personal letters or particular communications of parents in regard to their daughters should be sent to the President or Dean.

## TEACHERS' REGISTRY

The College is deeply interested in the welfare of its Alumnae and is willing to coöperate actively with those who desire to secure teaching positions. A registry will be kept for the purpose and eligible candidates will be recommended to schools desiring to fill vacancies in their faculty lists.

## DEGREES CONFERRED IN 1914

### BACHELOR OF ARTS

Boggs, Marjory Annette . . . . .	Pittsburgh
Brown, Margaret Hardy . . . . .	Pittsburgh
Brownlee, Janet Lowrie . . . . .	Washington
Burt, Charlotte Pauline . . . . .	Crafton
Goeddel, Gertrude Elizabeth . . . . .	Pittsburgh
Husband, Juanita Marie . . . . .	Mt. Pleasant
Knight, Phoebe Male . . . . .	Clairton
Kochersperg, Josette . . . . .	Jamestown, N. Y.
McWilliams, Mildred Margaret . . . . .	Pittsburgh
McBurney, Mary Marguerite . . . . .	Canonsburg
Plympton, Giulietta Adelinda . . . . .	Pittsburgh
Rider, Hazel Nancy . . . . .	Uniontown
Rutherford, Anna Margaret . . . . .	Washington
Sander, Helen Marguerite . . . . .	Pittsburgh
Savage, Mary Evans . . . . .	Homestead
Stewart, Margery . . . . .	Pittsburgh
Williams, Ethel Mae . . . . .	Glassport

## **CERTIFICATES GRANTED IN 1914**

### **CERTIFICATES IN MUSIC**

Bamford, Martha Gordon . . . . .	Midway
Miller, Ruth Emma . . . . .	Fairmont, W. Va.
Williams, Ethel Mae . . . . .	Glassport

### **CERTIFICATES IN SOCIAL SERVICE**

Boggs, Marjory Annette . . . . .	Pittsburgh
Brown, Margaret Hardy . . . . .	Pittsburgh
Burt, Charlotte Pauline . . . . .	Crafton
Kochersperg, Josette . . . . .	Jamestown, N. Y.
Kroenert, Martha Johanna . . . . .	Pittsburgh
Messner, Miriam Borchers . . . . .	Warren
McWilliams, Mildred Margaret . . . . .	Pittsburgh
Rider, Hazel Nancy . . . . .	Uniontown
Thompson, Marjorie . . . . .	Pittsburgh
Williams, Ethel Mae . . . . .	Glassport

## STUDENTS IN 1914-1915

### SENIORS

Burleigh, Lorna . . . . .	Pittsburgh
Cameron, Elizabeth Charlotte . . . . .	Edgewood Park
Campbell, Janet Douglas . . . . .	Pittsburgh
Davies, Grace Mary . . . . .	Pittsburgh
Estep, Mary Hall . . . . .	Pittsburgh
Jeffery, Mary Ruth . . . . .	Pittsburgh
Johnston, Jane . . . . .	California
Losa, Olga Emily . . . . .	Coraopolis
Morris, Virginia Iris . . . . .	Edgewood Park

### JUNIORS

Bair, Ethel Cordelia . . . . .	Edgewood Park
Bannerot, Alberta Emma . . . . .	Pittsburgh
Boale, Frances Eleanor . . . . .	Vandergrift Heights
Crouse, Rebekah Le Fevre . . . . .	Sharpsburg
Errett, Dorothy . . . . .	Carnegie
Frame, Gertrude Levis . . . . .	Pittsburgh
Gaw, Edna McConnell . . . . .	Pittsburgh
Geary, Rosemarie . . . . .	Wilkinsburg
Gibbons, Martha . . . . .	Anderson, Ind.
Greer, Alice Margaret . . . . .	Canonsburg
Hill, Leila . . . . .	Crafton
Laidlaw, Alice Marie . . . . .	Edgewood Park
Lee, Margaret Marie . . . . .	Wilkinsburg
Lewis, Leora Madeline . . . . .	Pittsburgh
Martin, Melba R. . . . .	Pittsburgh
Nichols, Mildred . . . . .	Pittsburgh
Robb, Mary Kathryn . . . . .	Wilkinsburg
Slater, Amelia Olive . . . . .	Wilkinsburg
South, Seba Graham . . . . .	Sewickley
Steele, Helen Elizabeth . . . . .	Pittsburgh
Thompson, Helen Leighton . . . . .	Pittsburgh
Weihe, Lillian Margaret . . . . .	Connellsville
Woodrow, Grace De Haven . . . . .	Pittsburgh

## SOPHOMORES

Bailey, Carrie E. . . . .	Monongahela City
Balsiger, Mary Edna . . . . .	Leechburg
*Blume, Isabel Margaret . . . . .	Pittsburgh
Claster, Leah . . . . .	New Kensington
Crandall, Martha Johnson . . . . .	Warren
Dunbar, Martha Belle . . . . .	Burgettstown
Eggers, Dorothy Ursula . . . . .	Pittsburgh
Errett, Jane Elizabeth . . . . .	Carnegie
Evans, Edna May . . . . .	Jeannette
Frazier, Anna Louise . . . . .	Monessen
Gokey, Clara Ruth . . . . .	Jamestown, N. Y.
Herald, Georgia Jocelyne . . . . .	Oxford, O.
Law, Ruth Jane . . . . .	Pittsburgh
McClelland, Elizabeth Day . . . . .	Pittsburgh
McCracken, Esther Margaret . . . . .	Pittsburgh
Pardee, Helen Louise . . . . .	Pittsburgh
Reinecke, Louise . . . . .	Pittsburgh
Shepard, Estelle . . . . .	Pittsburgh
Spriggs, Ada Marian . . . . .	Washington
Stoebener, Margaret Dorothy . . . . .	Pittsburgh
Stratton, Mary Jane . . . . .	Pittsburgh
Van Eman, Aline . . . . .	Pittsburgh

\*Deceased.

## FRESHMEN

Alexander, Rachel Songwell . . . . .	Washington
Bergman, Dorothy . . . . .	Pittsburgh
Bradt, Gertrude . . . . .	Pittsburgh
Cornelius, Kamala . . . . .	Madras, India
Crowe, Ellen Beatrice . . . . .	Pittsburgh
Davidson, Naomi Mollie . . . . .	Pittsburgh
Eggers, Elizabeth Voegtly . . . . .	Pittsburgh
Evans, Esther W. . . . .	Pittsburgh

Fournier, Eulalia . . . . .	Beaver Falls
Fuller, Eleanor . . . . .	Wilkinsburg
Goldsmid, Eleanor Beatrice . . . . .	Pittsburgh
Heinsling, Martha Brown . . . . .	Altoona
Hill, Janet Lockhart . . . . .	Pittsburgh
Hunker, Charlotte Marie . . . . .	Bellevue
Jeffers, Lora Virginia . . . . .	Crafton
Kates, Emily Serle . . . . .	Pittsburgh
Kauffman, Ruth May . . . . .	Pittsburgh
Keck, Anna Katherine . . . . .	Greensburg
Leitch, Helen Elizabeth . . . . .	Oakland
Levy, Doris' D. . . . .	Pittsburgh
Logan, Ruth Douglas . . . . .	Wilkinsburg
Long, Ruth Isabel . . . . .	Wilkinsburg
Marks, Annetta . . . . .	Pittsburgh
McKenzie, Elizabeth Day . . . . .	New Cumberland, Va
Minor, Dorothy Simpson . . . . .	Pittsburgh
Myers, Kathryne Hanna . . . . .	Pittsburgh
Smith, Margaret Gladys . . . . .	Carnegie
Sterling, Elizabeth Winona . . . . .	Masontown
Temple, Martha Agnew . . . . .	Washington
Ulrich, Marion Alice . . . . .	Ben Avon
Van Kirk, Lorena Ann . . . . .	West Newton
Ward, Elizabeth Jane . . . . .	Pittsburgh
Wolf, Rachel Olive . . . . .	Pittsburgh
Younkins, Florence Evelyn . . . . .	Butler
Yount, Hilda Margaret . . . . .	Greensburg

#### STUDENTS IN SPECIAL COURSES

Adams, Edna M. . . . .	Hites
Abbott, Helen . . . . .	Pittsburgh
Bates, Elizabeth . . . . .	Palo Alto, Cal.
Beer, Dorcas Katherine . . . . .	Bucyrus, O.
Becker, Isabel M. . . . .	Wilkinsburg



Buchbinder, Dora C. . . . .	Pittsburgh
Chilcott, Ruth . . . . .	Verona
Cooper, Mildred . . . . .	Unity
Culley, Mrs. David E. . . . .	Pittsburgh
Early, Mrs. Geo. P. . . . .	Pittsburgh
Eberhart, Constance . . . . .	Pittsburgh
Fisher, Lillian . . . . .	New Kensington
Fisher, Mrs. J. Arter . . . . .	Pittsburgh
Ghriest, Rachel . . . . .	Pittsburgh
Goeddel, Gertrude . . . . .	Pittsburgh
Golder, Helen Katherine . . . . .	Pittsburgh
Goorin, Sora B. . . . .	Pittsburgh
Hackney, Virginia . . . . .	Uniontown
Hill, Harriet . . . . .	Pittsburgh
Hoadley, Mrs. A. D. . . . .	Pittsburgh
Homer, Susie Iona . . . . .	Pittsburgh
Horner, Mary . . . . .	Pittsburgh
Jackson, Helen Smith . . . . .	Pittsburgh
Jennings, Mrs. O. E. . . . .	Pittsburgh
Jordan, Marguerite . . . . .	Pittsburgh
Kindl, Louise . . . . .	Pittsburgh
Krebs, Margaret . . . . .	Pittsburgh
Latham, Margaret . . . . .	Pittsburgh
Mahey, Jeanne Cyrene . . . . .	Pittsburgh
Manor, Avis C. . . . .	Pittsburgh
Mayhew, Mrs. Charles . . . . .	Pittsburgh
McCaw, Pauline . . . . .	Dennison, O.
McClelland, Helen . . . . .	Pittsburgh
McKenzie, Katherine . . . . .	Aspinwall
Mervine, Mrs. Iola K. . . . .	Knoxville
Miller, Myrtle . . . . .	Duquesne
Moon, Helen . . . . .	Pittsburgh
Morrison, Florence Jane . . . . .	Pittsburgh
Norman, Elfa . . . . .	Kittanning
Orr, Louise . . . . .	Pittsburgh
Paul, Josephine . . . . .	Pittsburgh

Prugh, Elizabeth . . . . .	Bellevue
Philput, Mary L. . . . .	Pittsburgh
Rea, Marianne Howe . . . . .	Pittsburgh
Reed, Mrs. Frank . . . . .	Fort Smith, Ark.
Reeser, Mrs. E. B. . . . .	Pittsburgh
Rodman, Mrs. Lee . . . . .	Connelton, Ind.
Rosenbloor, Florence . . . . .	Braddock
Rosenbloom, Anna . . . . .	Pittsburgh
Ruppel, Margaret . . . . .	Oakmont
Saul, Olda . . . . .	Pittsburgh
Shapira, Sara Belle . . . . .	Pittsburgh
Sheppard, Elizabeth Mooklay . . . . .	Pittsburgh
Stoebener, Edna T. . . . .	Pittsburgh
Tobey, Mrs. Edward A. . . . .	Pittsburgh
Thompson, Madeline Moffat . . . . .	Pittsburgh
Trimble, Nellie Irene . . . . .	Jeanette
Turner, Dorothy Maude . . . . .	Freeport
Wallis, Marjory E. . . . .	Pittsburgh
Walton, Mary . . . . .	Pittsburgh
West, Lillian . . . . .	Pittsburgh
Weston, Anna Mildred . . . . .	Gallitzin
Wright, Clara Elizabeth . . . . .	Pittsburgh

## ALUMNAE ASSOCIATION

The Association has its headquarters at the College and holds its annual meeting in the Assembly Hall on the Friday preceding Commencement day. It publishes annually the *Alumnæ Recorder*, containing a list of graduates, corrected by the latest information obtainable, and many items of interest concerning *Alumnæ* and former students.

The officers of the Association for the year 1914-1915 are:

President—Miss Mary B. Breed, '89.

Vice President—Miss Eleanor Fitzgibbon, '03.

Secretary—Miss Sara R. Carpenter, '11.

Treasurer—Miss Anne M. Houston, '02.

The Association is fully in sympathy with college plans and purposes and manifests its feeling in very practical ways. Three clubs of recent *Alumnæ* have been organized, members of the classes between 1890 and 1900 forming Decade Club I, graduates from 1900 to 1910 constituting Decade Club II, and graduates from 1911 on forming Decade Club III. The *Alumnæ* Lecture Committee has again undertaken to raise and administer a fund by means of which lectures may be given in the Assembly Hall for the benefit of undergraduates and *Alumnæ*.

### BLANK FORM FOR WILL BEQUESTS

I give and bequeath to the "Trustees of (The) Pennsylvania College for Women in the County of Allegheny," incorporated under the laws of the State of Pennsylvania, the sum of.....  
.....dollars; and the receipt of the Treasurer thereof shall be sufficient discharge to my executors for the same.



**SCHOOL OF SOCIAL SERVICE**





## COURSES IN SOCIAL SERVICE

Educated women are turning more and more to social service. They are eager to make their attainments in knowledge and training count for the good of others, to keep pace with social progress. The call for service comes from individuals, churches, civic agencies and philanthropic organizations. The spirit of service is not enough. To be efficient as a professional social worker, and no less in the ever-widening volunteer field a woman needs mental discipline and extensive knowledge. But even the ordinary studies of a college curriculum added to a spirit of service is an insufficient equipment. The social service worker soon discovers that she needs to know the principles which have been built upon the experience of others and are used by expert social workers of to-day. Adequate preparation for social service includes special studies in Sociology and Economics, application of these studies in some practical way, and the best general education obtainable.

In its courses in Social Service the college recognizes both the demands of the times and of the student. Nowhere can social equipment be gained so readily as in college. To prepare students for social work, Pennsylvania College for Women offers not only its special courses in Social Service, but also all its resources. The student is guided to supplement these social studies with arts and sciences of which she can make practical use, and relate her other studies to social work.

In the Social Service Courses, the program of the first year is planned to give a general outlook over the field of social endeavor. To this end weekly visits of observation are made to institutions. In the class room the causes of poverty, the history of philanthropy and the principles underlying modern charitable agencies (including those visited) are studied. The program of the second year is planned to give detailed information and practice. The student goes weekly to a philanthropic or civic agency and works under the direction of one of Pittsburgh's experienced social workers. In the class room are studied methods of caring for the needy by public institutions, by organized charity and by individuals. A third year is arranged to meet the needs of those who, having begun the study in the sophomore year decide to enter social work professionally, and of others whose interest in volunteer service directs them toward more advanced study.

Pittsburgh, with its great industries and its diversified philanthropies, is an unusual field for observation, investigation and practical work. The college is assisted by many experienced social workers of Pittsburgh, who give lectures explaining the work in which they are engaged. These social workers give valuable coöperation also by the actual training of students in field work.

A certificate is given to the student who completes the social service courses, together with other recommended collegiate subjects.

Regular students may take the social studies among their electives, supplementing the requirements of the college curriculum, so that the subjects necessary for the certificate may be studied as a part of the work leading to the degree of Bachelor of Arts.

Special students may complete the requirements for this certificate in two years by covering thirty hours of work, fifteen hours of social service and directly related subjects, and fifteen hours in other departments of collegiate study. Required for the certificate are the Social Service Courses (Page 57 and 58) Sociology and Economics (Page 57 and 58) 2 hours in Chemistry from Courses 11-12 and 13-14 (Page 37) Story Telling (Page 42) Plays and Games (Page 55) and an essay showing an accurate and somewhat extended knowledge of methods added to the writer's personal experience in a particular kind of social work. Substitutions in these requirements and choice of collegiate subjects in other departments are made only with the approval of the President or the Dean of the College, and the head of the Social Service Department. Biology, Psychology, History of Education, Ethics, Bible and other subjects required for the degree of Bachelor of Arts are advised. Modern languages, music and physical training are valuable aids in practical work.

Special students who are not candidates for a certificate may be admitted to the social service courses, but every special student must be eighteen years old, must have a high school diploma, or its equivalent, and must give satisfactory references to show that she has character and purpose.

For social service with related branches of study, the regular college tuition will be charged. The college dormitory is open to students in these courses.

## **MUSIC SCHOOL**



## **FACULTY**

JOHN C. ACHESON, LL.D., PRESIDENT

CORA HELEN COOLIDGE, DEAN

T. CARL WHITMER, DIRECTOR  
Piano, Organ, Harmony and Composition

MAE B. MACKENZIE  
Piano, Leschetizky method

CHARLES EDWARD MAYHEW  
Singing and Choral Direction

MRS. C. E. MAYHEW  
Singing and Sight Singing (Public School Music)

ANNA MILDRED WESTON  
Harmony and History of Music

F. J. BROSKY  
Violin

SUSANNE HOMER  
Piano (affiliated work)



## SCHOOL OF MUSIC

Unusual opportunities are offered at Pennsylvania College for Women for the study of this branch of Art. The Music School connected with the College has been enlarged and reorganized. Sixteen pianos are available for daily practice; and a three-manual and pedal pipe organ, with electric blower, makes it possible for students to secure great advantages in the way of practical work. Instruction is given in Organ, Piano, Voice, Violin, and other instruments, if desired.

Students taking college courses may have three hours of music each year counted toward a degree, on condition that two hours is theoretical instruction, with which one hour of practice may be combined by permission of the Faculty. A descriptive list of music courses carrying college credits will be found on pages 53 and 54.

A wide range of electives has also been provided for music students who are not candidates for the B. A. degree. Satisfactory completion of a definite amount of theoretical and practical work will entitle students to receive certificates in Piano, Organ, Singing and Musical Pedagogy. A detailed statement is given on pages 84-86 of the courses offered in the Music School, and of the requirements for a certificate in any one of the departments.

It has been the constant aim of the Director to have the teaching in every line of work based on correct comprehension of the laws of the mind. The system of piano study used is rational in every respect, and represents the highest form of musical pedagogy so far reached, leading the student to a positive technic, repose, and a wide range of expressive power. Our students are trained to think, to practice, to memorize, to play, to teach.

The organ work is upon the same intellectual plane as that of the piano. Sight reading, modulation, transposition and improvisation are studied methodically and problems of technic are systematized.

The development of the memory receives especial attention in order that the student may not only acquire a large repertoire but have it constantly available for use.



## THEORETICAL COURSES

1-2. HARMONY. Study of chords in both modes. Ear training, analysis, harmonization. Immediate application of knowledge to composition of pieces in simple forms.

*2 hours, through the year.*

3-4. HARMONY. A course embracing all theoretical factors fundamental to chord structure (keys, scales, rhythms, etc.) Study of chords in both modes. Ear training, analysis, harmonization. Composition in simple forms.

*1 hour, through the year.*

5-6. COUNTERPOINT AND COMPOSITION. Early and modern contrapuntal methods contrasted. Detailed study of melodic and rhythmic construction with practical application to composition.

*Prerequisite: Course 1-2. 2 hours, through the year.*

7-8. DOUBLE COUNTERPOINT, CANON AND FUGUE. Analysis and composition.

*Prerequisite: Courses 1-2 and 5-6. 1 hour, through the year.*

9-10. MUSICAL FORMS AND FREE COMPOSITION. Analysis of both normal and radical musical formations with immediate practice. Development of freedom in use of material.

*Prerequisite: Courses 1-2 and 5-6. 1 hour, through the year.*

11-12. ORCHESTRATION. Detailed theoretical and practical study of orchestral instruments, their individual characteristics and their relation to the score. Score reading.

*Prerequisite: Courses 1-2, 5-6 and 7-8. 1 hour, through the year.*

13-14. HISTORY OF MUSIC. Study of the great works, composers and virtuosi. Development of notation. Comparative study of musical periods.

*Open to students who have taken, or are taking, Course 1-2. 2 hours, through the year.*

15-16. HISTORY OF MUSIC. Advanced course. Research work on special topics adapted to personal requirements. American music receives emphasis.

*2 hours, through the year. Open to students who have taken course 13-14.*

17-18. APPRECIATION OF MUSIC. A free and untechnical study of men, masterpieces and criticism. Brief programs are given in connection with the lectures.

*Open to all students. 1 hour, through the year.*

### COURSES IN SINGING

1. ELEMENTARY COURSE. Control of the breath. Development of resonance and beauty of tone in relation to vowel sounds. Studies in the formation of consonants. Ear training—intonation and rhythm. Simple exercises and songs.

2. INTERMEDIATE COURSE. Continuation of Elementary Course. Florid exercises—scales, roulades, trills, and other embellishments. Special work in articulation, phrasing, freedom of tone and of facial expression. Advanced vocalises and songs.

3. ADVANCED COURSE. Development of style. Interpretation—analysis of thought in song poems. The treatment of different schools of composition. The preparation of recital programs. Special studies—Church—Oratorio—Concert—Opera.

4. NORMAL COURSE. Résumé of Elementary, Intermediate, and Advanced Courses. Studies in the causes and treatment of various vocal vices, such as the tremolo (in its different phases), nasality, faulty intonation, etc. The consideration of the individuality of pupils. In connection with this study opportunity will be afforded for observation.

### REQUIREMENTS FOR CERTIFICATE IN PIANO

1. PRACTICAL. The presentation of a program at graduation which shall be the equivalent of the following:

- ( 1 ) Prelude and Fugue, *Bach*.
- ( 2 ) Caprice (Alceste), *Gluck—Saint-Saëns*.

- ( 3 ) Nocturne in F sharp, *Chopin*.
- ( 4 ) Etude, Op. 25, No. 10, *Chopin*.
- ( 5 ) Adagio from Sonata, Op. 2, No. 2, *Beethoven*.
- ( 6 ) Gigue in A, *Bach-MacDowell*.
- ( 7 ) Polichinelle, *Rachmaninoff*.
- ( 8 ) Sonata, No. 4, *MacDowell*.
- ( 9 ) Jeux d' Eau, *Maurice Ravel*.
- (10) Etude III. (La Campanella,) *Paganini-Liszt*.

2. THEORETICAL. Harmony and Single Counterpoint in four parts, five species. Double counterpoint in the octave, fifteenth, tenth and twelfth. An example of Counterpoint no less than forty-eight measures in four parts, mixed species. A hymn tune over words to be selected by the Director. Two compositions, vocal or instrumental, in selected forms. Completion of this course must agree with date of certificate.

3. HISTORICAL. The course, 13-14, as outlined in Hamilton's *History of Music* and course 15-16.

4. COLLEGIATE. Seven hours of college work a year for two years, which may be chosen from Modern Languages, Rhetoric, English, History and Physics 3, Psychology, at the discretion of the President and the Dean.

In case a student elects accompanying as major with solo work as minor in the piano course, credit is given to that branch. Therefore the recital indicative of proficiency shall have due proportion of songs or other works in which the applicant for certificate shall also accompany the songs or other works.

## PIANO IN CLASSES

This weekly class lesson under the Director is designed for the special study of interpretation exclusively for advanced players. This method is recognized everywhere as efficient, giving the students poise, confidence, and valuable experience.

Only under exceptional circumstances will students be accepted in this class unless they are also entered for private work.

No academic credit given.

## REQUIREMENTS FOR CERTIFICATE IN ORGAN

1. PRACTICAL. The presentation of a program equivalent to the following:

- (1) Fantasie and Fugue in G minor, *J. S. Bach*.
- (2) Overture to *Midsummer Night's Dream*, *Mendelssohn*.  
(Arranged by Samuel P. Warren.)
- (3) Fanfare, *T. Carl Whitmer*.  
(Published by Clayton Summy Co., Chicago).
- (4) Improvisation on a given theme.
- (5) Symphony, No. V, *Chas. Marie Widor*.
  - I. Allegro Vivace.
  - II. Allegro Cantabile.
  - III. Andantino quasi Allegretto.
  - IV. Adagio.
  - V. Toccata.

PIANO—To organists the possession of a matured piano technic is absolutely indispensable.

2. THEORETICAL. The same as that prescribed for graduation in piano.

3. MECHANICAL. Ability to tune reed pipes and to repair all ordinary disorders of the organ.

4. COLLEGIATE. The same as that prescribed for certificate in piano.

## REQUIREMENTS FOR CERTIFICATE IN SINGING

1. PRACTICAL.

The presentation of a program equivalent to the following:

PURCELL (1658-1695) "Nymphs and Shepherds"

SCARLATTI (1659-1725) "Le Violette"

HAYDN (1732-1809) "My Mother Bids Me Bind My Hair"

MOZART (1756-1791) "Voi che sapete"

OLD IRISH (?) "When Love is Kind"

SCHUBERT (1797-1828) "Auf dem Wasser zu Singen"

SCHUMANN (1810-1856) "Die Lotosblume"

LISZT (1811-1886) "Die Lorelei"

BRAHMS (1833-1897) "An eine Aeolsharfe"

MASSENET (1842-1913) "Bonne Nuit"

CHARPENTIER (1860-....) "Depuis le jour"

WHELPLEY (contemporary) "Forest Song"

EMERY (1841-1891) "Burst, ye Applebuds"

RONALD (1873-....) "A Little Winding Road"

THOMAS (1850-1892) "A Song of Sunshine"

NEVIN (1862-1901) "Nightingale's Song"

2. THEORETICAL. The same as that prescribed for graduation in piano.

3. HISTORICAL. The same as that prescribed for graduation in piano.

4. COLLEGIATE. The same as that prescribed for graduation in piano.

*Choral class work and sight reading are required throughout the course.*

### GENERAL SUMMARY OF HOURS FOR CERTIFICATE STUDENTS

	First Year	Second Year
Piano or Voice (or any major) (3 hours daily practice)	- 2 half hours	2 half hours
Violin, Voice, etc. (or any minor)	1 half hour	1 half hour
Harmony, Composition, etc.	- - - 2 hours	2 hours
History of Music	- - - 2 hours	2 hours
Choral work (this includes instrumental students)	- - - 1 hour	1 hour
College Work	- - - 7 hours	7 hours

Attendance at all important concerts required.

## TEACHERS' COURSE

As all conscientious teachers are anxious to acquire the best methods, the College has thought it worth while to offer a special and most helpful course for the benefit of those teachers who are so occupied with their own professional work as to be unable to register for the regular courses detailed above, and who especially wish to master principles and methods of teaching.

### REQUIREMENTS FOR THE TEACHERS' CERTIFICATE

#### 1. PRACTICAL.

- a. Ability to play through fourth grade work in piano.
- b. A teaching experience of one and one-half years.

2. THEORETICAL. The same as that prescribed for graduation in piano.

3. COLLEGIATE. The same as that prescribed for graduation in piano.

*If voice or violin is elected as the major subject, piano work up to grade three will be accepted.*

## COURSE IN PUBLIC SCHOOL MUSIC

SIGHT-SINGING, METHODS, DICTATION. The course requires for completion the ability to read fluently the music used in the various grades (including high school). Study of material for all grades, methods for presentation, and treatment of voices especially during period of mutation. Dictation covers the ground of recognition and identification of music heard.

CHORAL SINGING AND CONDUCTING. Practical experience in all phases of choral work, including study of material.

HARMONY AND COUNTERPOINT (Single). Courses 1-2 and 5-6.

ORCHESTRATION AND SCHOOL ORCHESTRAS. Orchestration is here studied especially for the combinations of instruments usually available in the public schools.

**HISTORY OF MUSIC.** This course designed especially for those whose duty will be the arrangement and supervision of classes in Musical Appreciation and Current Events. Courses 13-14 and 15-16.

Collegiate work same number of hours as in certificate for Piano.

Required—Psychology and History of Education. Electives from the department of History, English, Economics, Modern Languages and Physical Training.

## **DEPARTMENT OF CHURCH MUSIC**

The College is prepared to offer exceptional facilities for the study and practice of Church Music. Solo organ playing, accompanying of solos and anthems, and choir training form the work for this course.

A similar course is offered for singers in the study of Church Choir music, including hymns, anthems, oratorios and songs suitable for use in the various churches. Practical experience in both divisions. Effort is made to place organists and singers in church work. This is done through our connection with music committees and ministers.

## **AFFILIATED WORK**

By affiliated work we indicate the present connection which our former accredited music students have with us. For example, such a student enters a certain locality and develops a large class there. Such a teacher has the privilege of bringing her students to the Director or other instructors from time to time for criticism and help in the outlining of work. Also such a teacher is referred to when we are asked to suggest a teacher for that locality. Also for any overflow with us.

## **PITTSBURGH AND ITS MUSIC**

Students have splendid opportunities to hear frequently the world's greatest artists in opera and concert, usually at special reduction in prices.



All these influences are of inestimable value in a musical education, so that a college outside of a great city can never compete with one within in the formative, cultural factors always at work.

It is suggested that a fee of Ten Dollars be deposited with the Director of Music to be used at his discretion for the important concerts of the year, arrangements for which must be made early in the season.

Students who fail to avail themselves of the musical opportunities will find that their credits for general musical culture will be seriously affected.

### FEES

	Per Semester	
	one lesson weekly	two lessons weekly
Grand Organ . . . . .	\$40	\$75
<i>Three-manual pipe organ for lessons and practice, blown by electric motor.</i>		
Piano (private lessons) . . . . .	30-40	50-75
Piano (class lessons) . . . . .	30	
Voice . . . . .	30	50
Harp	30	50
Guitar }		
Mandolin }		
Use of Organ, one period daily . . . . .		15
Use of Piano, one period daily . . . . .		10
Violin (per lesson) . . . . .		2
Single lesson in Piano, Organ or Voice . . . . .		5

All arrangements for the study of music are made for the entire term. Lessons cannot be discontinued except for valid reason and due notice must be given. No deduction will be made for lessons lost by the student. As engagements with instructors and other provisions for the education of students are made by the College for the entire year in advance, *no deduction can be made in the charge for tuition for either resident or day students.*

## THEORETICAL COURSES

History of Music

Harmony

Counterpoint

Canon

Fugue

Composition

Orchestration

Appreciation of Music.

} Private Instruction at Piano rates.  
Class Instruction, for those not otherwise  
classified, \$15 per semester.

## ORCHESTRAL INSTRUMENTS

Students desiring to study any orchestral instrument will be provided with an instructor from the ranks of the Pittsburgh Orchestra.

All arrangements for the study of music are made for the entire term. Lessons cannot be discontinued except for valid reasons, and due notice must be given. No deduction will be made for lessons lost by the student.

## FREE ADVANTAGES

*(Open to all Students)*

Harmony Class, Ensemble Class, Choral Class, Music Club, Sight-Singing Class, Class in Musical Appreciation, Glee Club, Mandolin Club, Concerts and Lectures.

## MUSIC STUDENTS

### PIANO

Adams, Margaret Edna . . . . .	Pittsburgh
Ashford, Florence . . . . .	Corapolis
Bates, Elizabeth . . . . .	Palo Alto, Cal.
Buchbinder, Dora Charlotte . . . . .	Pittsburgh
Buchbinder, Lucy . . . . .	Pittsburgh
Bruckman, Valerie . . . . .	Bellevue
Bradt, Marie Antoinette . . . . .	Pittsburgh
Boale, Frances E. . . . .	Vandergrift
Becker, Margaret . . . . .	Wilkinsburg
Chamblon, Mary Louise . . . . .	Pittsburgh
Cody, Eleanor . . . . .	Pittsburgh
Cooper, Mildred . . . . .	Unity
Chilcott, Ruth . . . . .	Verona
Ferguson, Ruth . . . . .	Pittsburgh
Farr, Lois Marjorie . . . . .	Avalon
Gangioff, Thelma A. . . . .	Mt. Washington
Germaine, Mrs. A. A. . . . .	Pittsburgh
Golder, Helen Katherine . . . . .	Pittsburgh
Gaston, Marion Grosvenor . . . . .	Pittsburgh
Horner, Mary Elizabeth . . . . .	Pittsburgh
Homer, Suzanne . . . . .	Pittsburgh
Hommel, Evelyn Loretta . . . . .	Brownsville
Horrocks, Alice . . . . .	Pittsburgh
Jordan, Marguerite . . . . .	Pittsburgh
Lent, Grace Elizabeth . . . . .	Pittsburgh
Litchfield, Ethel . . . . .	Pittsburgh
Logan, Ruth . . . . .	Wilkinsburg
Klein, Martha . . . . .	Pittsburgh
Miller, Myrtle . . . . .	Duquesne
Myers, Katherine . . . . .	Pittsburgh
McCaw, Pauline . . . . .	Dennison, O.
McCurdy, Elizabeth . . . . .	Pittsburgh

McWilliams, Mildred . . . . .	Pittsburgh
Norman, Elfa . . . . .	Kittanning
Pew, Mary . . . . .	Pittsburgh
Philput, Mary Frances . . . . .	Pittsburgh
Rodman, Mrs. Margherita Welling . . . .	Camelton, Ind.
Ruppel, Margaret . . . . .	Pittsburgh
Stuebener, Edna Florence . . . . .	Pittsburgh
Shane, Mabel Wallace . . . . .	McDonald
Stevenson, Elizabeth . . . . .	McDonald
Stuckslager, Helen . . . . .	Pittsburgh
Sterling, Winona . . . . .	Masontown
Steele, Helen E. . . . .	Pittsburgh
Trimble, Nellie Irene . . . . .	Jeanette
Tillinghast, Marion B. . . . .	McDonald
Wright, Clara E. . . . .	Pittsburgh

#### SINGING

Armstrong, Margaret . . . . .	West Newton
Batchelor, Joseph . . . . .	Pittsburgh
Bradt, Gertrude . . . . .	Pittsburgh
Becker, Margaret E. . . . .	Wilkesburg
Brewer, Mrs. W. A. . . . .	Pittsburgh
Dorman, Helen . . . . .	Pittsburgh
Cully, Mrs. D. E. . . . .	Pittsburgh
Evans, Edna May . . . . .	Jeanette
Eggers, Elizabeth Voegtly . . . . .	Pittsburgh
Forster, Nancie Beryle . . . . .	Sheraden
Frazier, Louise . . . . .	Monessen
Jennings, Mrs. O. E. . . . .	Pittsburgh
Hill, Harriet . . . . .	Pittsburgh
Krebs, Margaret . . . . .	Pittsburgh
Manor, Avis Crystall . . . . .	Pittsburgh
McCaw, Pauline . . . . .	Dennison, O.
MacKenzie, Blanche . . . . .	Pittsburgh
Norman, Elfa . . . . .	Kittanning

Robb, Kathryn . . . . .	Wilkinsburg
Orr, Louise . . . . .	Pittsburgh
Shane, Mabel . . . . .	McDonald
Stuckslager, Eleanor . . . . .	McKeesport
Trimble, Nellie . . . . .	Jeanette
Wallis, Marjorie . . . . .	Pittsburgh
Walton, Mary . . . . .	Homestead
West, Lillian . . . . .	Pittsburgh
Younkins, Florence . . . . .	Butler
Taylor, Elizabeth . . . . .	Pittsburgh

## HARMONY AND COMPOSITION

Adams, Margaret Edna . . . . .	Hites
Bates, Elizabeth . . . . .	Palo Alto, Cal.
Bruckman, Valerie . . . . .	Bellevue
Becker, Margaret I. . . . .	Wilkinsburg
Cooper, Mildred . . . . .	Unity
Chilcott, Ruth . . . . .	Verona
Chambon, Mary Louise . . . . .	Pittsburgh
Evans, Edna May . . . . .	Jeanette
Frazier, Louise . . . . .	Monessen
Forster, Nancie B. . . . .	Sheraden
Germaine, Mrs. A. A. . . . .	Pittsburgh
Goeddel, Gertrude . . . . .	Pittsburgh
Horner, Mary . . . . .	Pittsburgh
Golder, Helen . . . . .	Pittsburgh
Hommel, Evelyn L. . . . .	Brownsville
Hoadley, Mrs. A. D. . . . .	Pittsburgh
Horrocks, Alice . . . . .	Millvale
Logan, Ruth D. . . . .	Wilkinsburg
Latham, Margaret . . . . .	Pittsburgh
Mayhew, Emma . . . . .	Pittsburgh
Mervine, Mrs. Ida K. . . . .	Pittsburgh
McCaw, Pauline . . . . .	Dennison, O.
McCurdy, Elizabeth . . . . .	Pittsburgh

McWilliams, Mildred . . . . .	Pittsburgh
Norman, Elfa . . . . .	Kittanning
Pew, Mary Barr . . . . .	Pittsburgh
Philpnt, Mary F. . . . .	Pittsburgh
Rodman, Mrs. Margherita W. . . . .	Camelton, Ind.
Robb, Kathryn . . . . .	Wilkinsburg
Ruppel, Margaret . . . . .	Oakmont
Stoebener, Edna Florence . . . . .	Pittsburgh
Shane, Mabel Wallace . . . . .	McDonald
Steele, Helen E. . . . .	Pittsburgh
Trimble, Nellie I. . . . .	Jeanette
Tillinghast, Marion B. . . . .	McDonald
Wallis, Marjorie E. . . . .	Pittsburgh
Younkins, Florence . . . . .	Butler

#### ORGAN

Hommel, Evelyn L. . . . .	Brownsville
Mayhew, Mrs. Emma . . . . .	Pittsburgh
Stuckslager, Helen . . . . .	McKeesport
Ruppel, Margaret . . . . .	Oakmont

#### HISTORY OF MUSIC

Adams, Margaret Edna . . . . .	Hites
Becker, Margaret I. . . . .	Wilkinsburg
Cooper, Mildred . . . . .	Unity
Chilcott, Ruth . . . . .	Verona
Frazier, Louise . . . . .	Monessen
Hommel, Evelyn . . . . .	Brownsville
McCurdy, Elizabeth . . . . .	Pittsburgh
Norman, Elfa . . . . .	Kittanning
Ruppel, Margaret . . . . .	Pittsburgh
Steele, Helen . . . . .	Pittsburgh
Sterling, Winona . . . . .	Masontown
Mervine, Mrs. Ida K. . . . .	Pittsburgh
Trimble, Nellie I. . . . .	Jeanette
Wright, Clara E. . . . .	Pittsburgh

### APPRECIATION OF MUSIC

Butterfield, Alice Dacre . . . . .	Pittsburgh
Early, Mrs. Geo. . . . .	Pittsburgh
Fisher, Mrs. J. Arter . . . . .	Pittsburgh
Reeser, Mrs. Edwin B. . . . .	Pittsburgh
Tobey, Mrs. A. B. . . . .	Pittsburgh









